APPROVED BY

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAUF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other Instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136 Expires: December 31, 1991

	APPLICATION	FOR PERMIT TO DRILL (OR DEEPEN	
1 a. TYPE OF WORK	DRILL X	DEEPEN		5. LEASE DESIGNATION AND SERIAL NO.
•	DRILL X	EEFEN		UTU-71391
b. TYPE OF WELL OIL	GAS -		SINGLE MULTIP	6. IF INDIAN, ALLOTTEES OR TRIBE NAME
WELL	WELL X	OTHER - COALBED METHANE	ZONE LE	
2. NAME OF OPERATOR	A 1 4 7 A	DV 0 DETECT FULL 0.00000	יים חודות דגוי	7. UNIT AGREEMENT NAME
		RKO PETROLEUM CORPORA	ATION COLLEGE	
3. ADDRESS AND TELEPH			204/275 4404	8. FARM OR LEASE NAME WELL NO
		rive, Houston, Texas 77060	281/875-1101	Helper Federal C-3
LOCATION OF WELL (R At surface	eport location clearly and in accor	rdance with any State requirements.)	u 0111	
	SESW 934 FSL 1	1971 FWL, SW Section 24, T1:	4391674	10. FIELD AND POOL OR WILDCAT
At proposed prod. zone	JE-510 934 F3L 1	1971 1 VVL, 3VV 36CUOI1 24, 11.	52/296	E Helper CBM
	934 FSI 1	1971 FWL, SW Section 24, T1;		11. SEC. T.R.M. OR BLK. AND SURVEY OR AREA
	304 f 3L	1971 FVVE, 3VV 36Cuott 24, 314	33 K102	Section 24, T13S R10E
14 DISTANCE IN MILES A	ND DIRECTION FROM NEARES	T TOWN OR POST OFFICE		12. COUNTY 13. STATE
14. DISTANCE IN MILES A	NU DIRECTION FROM NEARES	9 miles North of Price,Ut		Carbon Utah
15. DISTANCE FROM PRO			16. NO, OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL.
NEAREST PROPERTY (Also to nearest drig. un		934'	925'	160
18. DISTANCE FROM PRO			19. PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS
NEAREST WELL, DRIL	LING, COMPLETED, OR	2050'	4450'	Rotary
APPLIED FOR, ON THE				20 ARRENO V BATE WOOK WILL CTART
21. ELEVATIONS (Show wh	netner DF, K1, GK, etc.)	6655' GL		22. APPROX. DATE WORK WILL START.
			NO OCHENTINO PROCESAN	06/01/2000
23. SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	ND CEMENTING PROGRAM	
11"	8 5/8" J-55	24#	SETTING DEPTH	QUANTITY OF CEMENT
11	0 3/6 J-33	24#	300'	180 cu. Ft.
7 7/0*	\$ 1/0" V EE	1E E#	4450	050 54
7-7/8"	5-1/2" K-55	15.5#	4450	250 cu. Ft.
7-7/8*	5-1/2" K-55	15.5#	4450	
7-7/8*	5-1/2" K-55 Attached is the following:		4450	RECEIVED
7-7/8*			4450	RECEIVED
7-7/8*	Attached is the following:		4450	
7-7/8*	Attached is the following: 1. Survey Plat	: re 1-1	4450	RECEIVED MAY 1 0 2000
7-7/8*	Attached is the following: 1. Survey Plat 2. BOP Schematic, Figure 3. Topo & Access Map & 4. Pit & Pad Layout with	: re 1-1 & Area Map. cross sections of pit, pad, & rig		RECEIVED MAY 1 0 2000 DIVISION OF
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BRADLEY G. HILL
RECLAMATION SPECIALIST III
See Instructions On Reverse Side

DATE 75 00

ANADARKO PETROLEUM CORP. T13S, R10E, S.L.B.&M. Well location, HELPER FEDERAL #C-3. N86'43'E - 43.66 (G.L.O.) located shown in the SE 1/4 SW 1/4 of 1976 Bross Cap Section 24, T13S, R10E, S.L.B.&M. Carbon 0.5' High, Pile of Stones County, Utah. LOT 1 LOT 2 98'26' (G.L.O.) BASIS OF ELEVATION BASIS OF BEARINGS IS THE WEST LINE OF THE NW 1/4 OF SECTION 25, T13S, R10E, S.L.B.M. SPOT ELEVATION AT THE SOUTHEAST CORNER OF WHICH IS ASSUMED FROM G.L.O. INFORMATION LOT 3 LOT 4 SECTION 36, T13S, R10E, S.L.B.&M. TAKEN FROM TO BEAR NO'30'W. THE DEADMAN CANYON QUADRANGLE, UTAH, CARBON 7 COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6200 FEET. 10T 8 LOT 7 LOT 6 LOT 5 1965 Brass Cop. 0.5' High, Pile of Stones 1976 RM 1976 RM LOT 9 Brass Cap Bross Cop **LOT 10** Ô LOT 11 0.2' High, 0.2' High, 2638.16 Pile of Pile of Stones Stones 2609 SCALE **LOT 12** CERTIFICATE HELPER FEDERAL #C-3 1971 THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM Elev. Ungraded Ground = 6655' FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY ,55,60.50N SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO LOT 16 BEST OF MY KNOWLEDGE AND BELIEF **LOT 13 LOT 14** LOT 15 1965 Bross Cop REGISTERED LAND SURVEYO 2.0° High, Pile of Stones, 4° PVC Pipe REGISTRATION NO. 161 1976 Brass Cap N88"29'18"E - 3122.89' (Meas.) STATE OF UTAH 1976 Brass Cap N88'30'23"E - 3123.19' (Meas.) 4.0' High, 3' NWLY, 2 Bearing Trees 2.0' High, Pile & LAND SURVEYING 0.5' High, Pile RECEIVED UINTAH ENGINEERING of Stones VERNAL, UTAH 84078 85 SOUTH 200 EAST -(435) 789-1017 MAY 10 2000 DATE DRAWN: DATE SURVEYED: LEGEND: SCALE 8-30-99 1'' = 1000'8-27-99 **DIVISION OF** LATITUDE = $39^{40}35$ " REFERENCES = 90' SYMBOL PARTY OIL GAS AND MINING LONGITUDE = 110'45'13" G.L.O. PLAT D.COX D.L.K. L.J. = PROPOSED WELL HEAD. WEATHER FILE ANADARKO PETROLEUM CORP. = SECTION CORNERS LOCATED. WARM





May 9, 2000

Bureau of Land Management 82 East Dogwood Moab, Utah 84532

Attention: Eric Jones

RE: Application for Permit to Drill

Carbon County

RECEIVED

MAY 10 2000

DIVISION OF OIL, GAS AND MINING

Gentlemen:

Enclosed, in triplicate, is an Application for Permit to Drill (Form 3160-3) for the Helper Federal C-3 well in Carbon County, Utah. In addition, one copy of the application has been forwarded to the Price River Resources Area Field Office and two copies to the State of Utah Division of Oil, Gas & Mining.

Estimated start-up date to begin drilling the first well is on or about June 1, 2000. Please call me at (281) 874-8766 if you require further information or have any questions.

Sincerely,

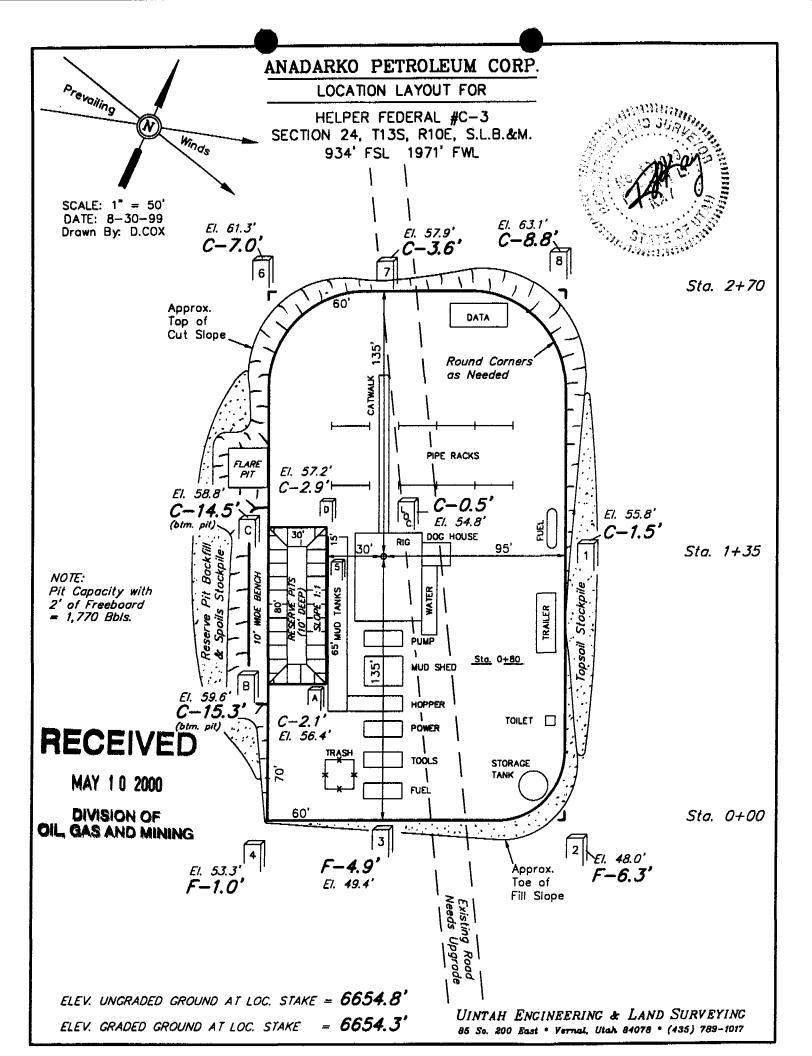
Yudy Dav/dson Regulatory Analyst

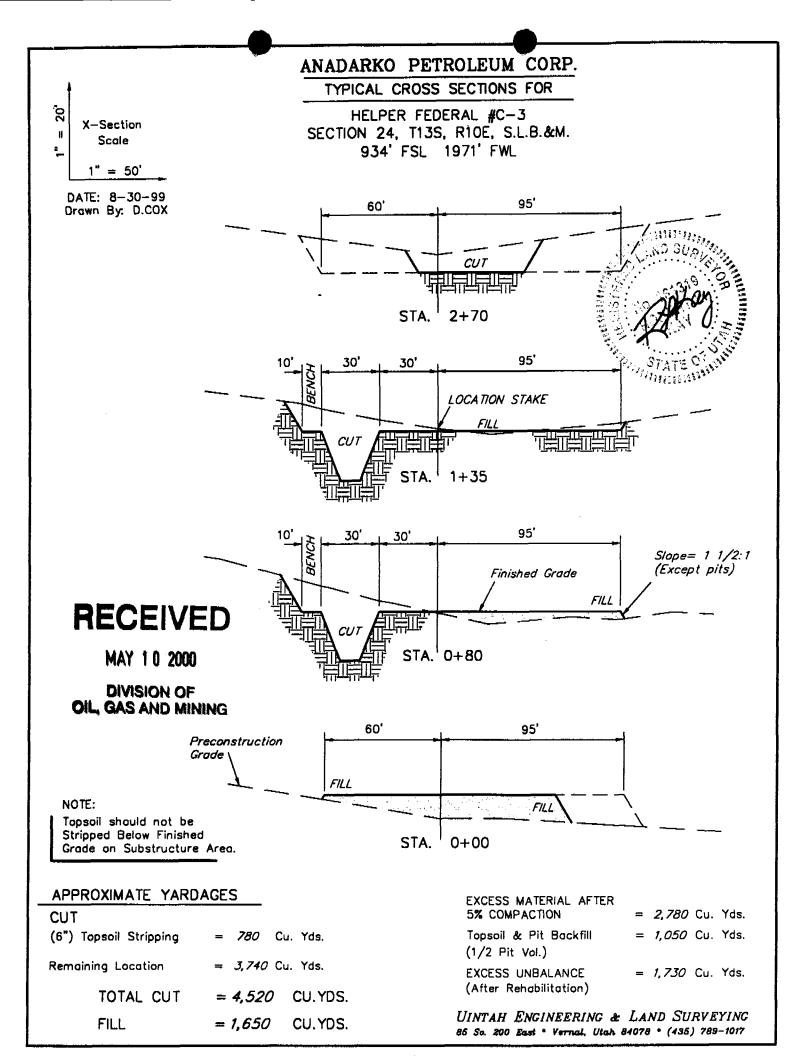
JD/me enclosures

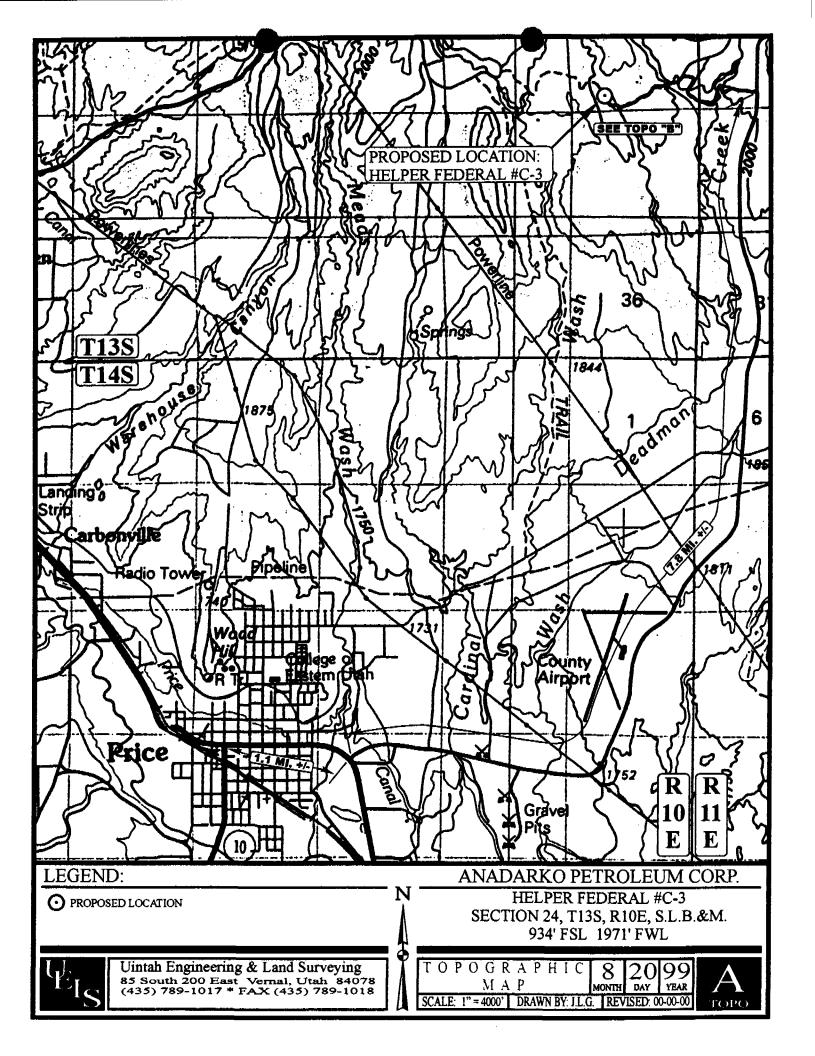
cc: Bureau of Land Management

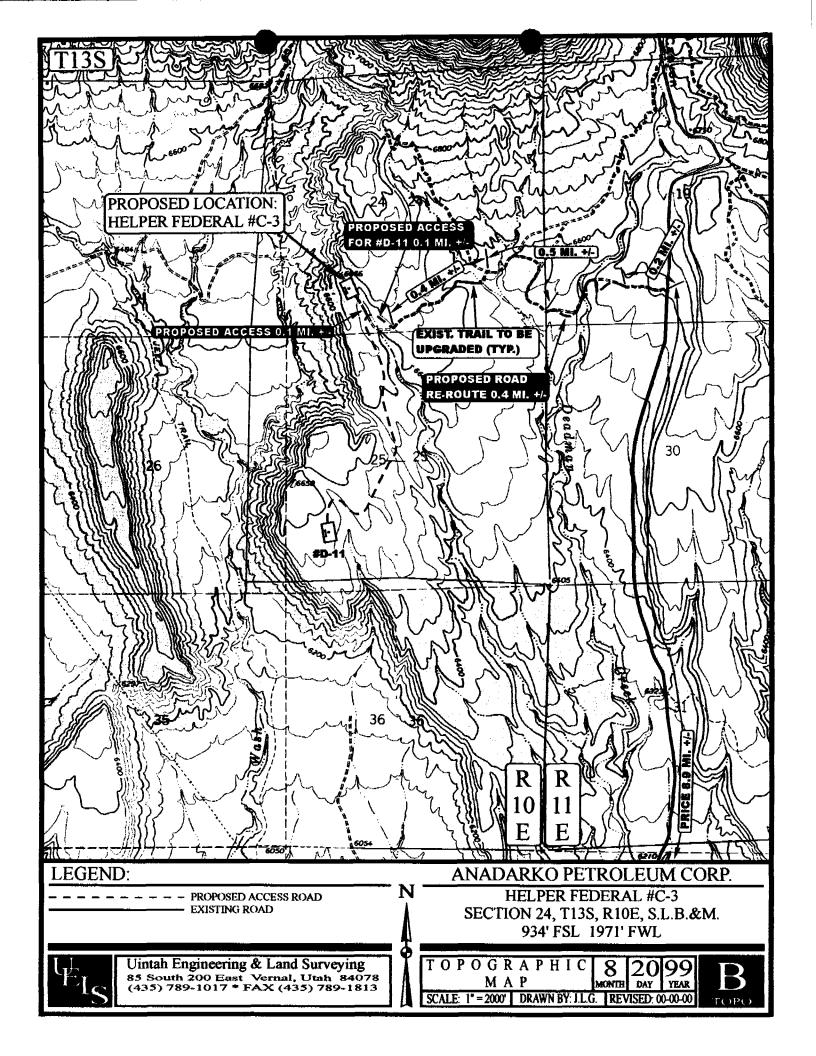
125 South, 6th West Price, Utah 84501 State of Utah Division of Oil, Gas & Mining

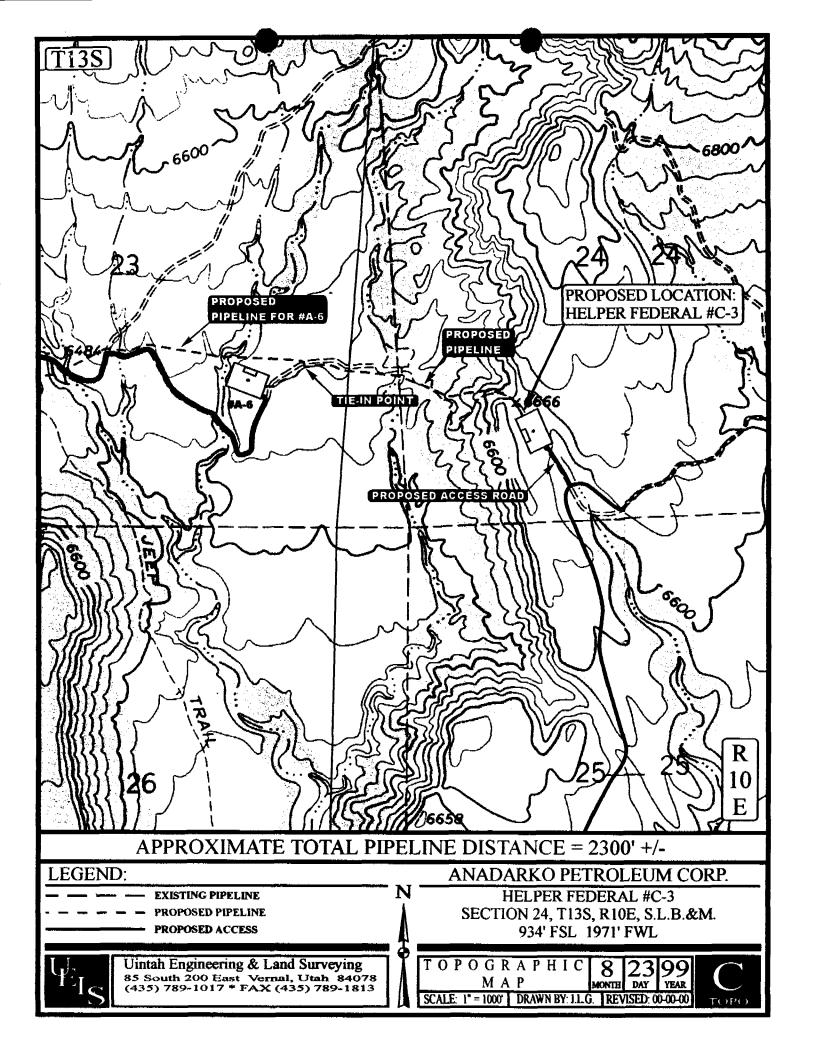
1594 West North Temple, #1210 Salt Lake City, Utah 84114











ANADARKO PETROLEUM CORPORATION (APC) FERRON COALBED METHANE HELPER FIELD CARBON COUNTY, UTAH

STANDARD OPERATING PRACTICES

I. DRILLING PROGRAM

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations, (43CFR3100), Onshore Oil & Gas Orders No. 1 and No. 2, and the approved Plan of Operations. APC is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

BLM Notification Requirements (Price BLM Office - 435-636-4000):

Location Construction

48 hours before commencing

Location Completion

Prior to moving the drilling rig on site 24 hours before commencing operations

Spud notice BOPE Test

24 hours before commencing operations

Casing & Cement

24 hours before commencing operations

First Production

Within 5 days after new well begins producing

RECEIVED

MAY 1 0 2000

DIVISION OF OIL, GAS AND MINING

1. Estimated formation tops of important geologic markers:

Formations and depths will be submitted with the site specific APD.

2. Estimated Depths of Anticipated Water, Oil, Gas or other Mineral-Bearing zones:

Formations and depths will be submitted with the site specific APD.

All useable water (<10,000 ppm TDS) zones and prospectively valuable mineral zones encountered during drilling will be recorded by depth and adequately protected. Report all water shows and water bearing formations within one day to the Price Office before running the next casing string and before plugging orders are requested. Detected water flows shall be sampled and analyzed for the following properties: Flow rate, Temperature, pH, Hardness, Iron (FE - mg/l), Calcium (Ca - mg/l), Magnesium (Mg - mg/l), Sodium (Na - mg/l), Bicarbonate (HCO₃ - mg/l), Carbonate (CO₄ - mg/l), Sulfate (SO₄ - mg/l), Chlorine (Cl + mg/l), and Total Dissolved Solids (TDS - mg/l).

Significant oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment:

A 9" 2M BOPE system will be installed on the 8-5/8" casinghead. In addition to the BOP stack, a rotating/stripping head will be installed on top of the BOP to assist in safe air drilling operations. The BOP stack will be tested prior to drilling below surface casing. The ram preventers will be tested to 70% of the working pressure of the casing head. The annular will be tested to 50% of its working pressure. Operational checks will be made daily or on trips. A BOP schematic is shown on attached Exhibit "A".

The BOP system will be consistent with API RP 53 and Onshore Order No. 2 for a 2M system. Pressure tests will be conducted before drilling out from under surface casing which is set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. BOPE will be inspected and operated to ensure good mechanical working order. This inspection will be recorded on the IADC daily drilling report. BOPE will be pressure tested before drilling casing cement plugs. The accumulator system will meet IADC guidelines concerning pump capacities, storage capacity, and reservoir volume. Closing unit fluid volume will be sufficient to pre-charge the system to operating pressure plus 50% excess. One set of controls will be in the doghouse on the rig floor and one set will be remote on the drilling pad.

4. Casing Program:

Surface Casing: 8-5/8", 24#, J55, STC new casing will be set at approximately 300'. Production Casing 5-1/2" 15.5#, K-55, LTC, new casing will be set at TD if productive.

The safety factors on casing strings will equal or exceed the following values:

Collapse 1.0 Joint Strength 1.6 Burst 1.2

All casing strings below the conductor shall be pressure tested to 0.22 psi per linear foot of casing or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action will be taken.

5. <u>Cementing Program:</u>

Surface – Cement will be circulated to the surface. Casing will be cemented with approximately 150 sx or 180 cu. ft. of API Class 'G' neat cement.

Waiting on cement time will be adequate to achieve 500 psi compressive strength at the shoe prior to drilling out.

Production – Cement will be raised to a minimum depth of 500' above the productive interval. Casing will be cemented with Extended Class G 50:50 Pozmix cement mixed at 14.2 ppg to yield 1.59 cf/sk. Actual cement volume will be determined from the caliper log plus 15%.

Additional additives will be used to retard the cement, accelerate the cement, control lost circulation, or control fluid loss. All cementing will be done in accordance with API cementing practices.

Where usable quality water and/or prospectively valuable minerals are encountered by the well bore, those formations will be isolated and/or protected by the cement program for the production casing.

6. <u>Drilling Fluids Program:</u>

A truck-mounted air drilling rig will be used to drill the surface hole to approximately 300' in order to pre-set the surface casing before moving a drilling rig on location to drill the rest of the hole.

An air/mist system will be used for drilling from below surface pipe to TD. Upon reaching TD, the hole will be filled with produced or other available water to assist logging & cementing operations.

The following equipment will be in place and operational during air/mist drilling:

- A properly lubricated and maintained rotating head
- Spark arrestors on engines or water cooled exhaust
- Blooie line discharge 100 feet from well bore and securely anchored
- Straight run blooie line unless otherwise approved by AO
- De-dusting equipment
- A mud pump and with sufficient volume of water to fill the hole and pits

All air/mist drill cuttings will be aimed into a reserve / flare pit. In the event that gas is circulated to surface while drilling, an automatic igniter or continuous pilot light will be used to ignite the flare at the blooie line discharge.

7. Logging, Coring, and Testing Program:

Minimum open hole log measurements will include bulk density, gamma ray (GR), and caliper (TD to surface casing, GR-TD to surface) subject to hole conditions. If additional logging runs are proposed, it will be noted in a site specific APD.

Coring - As deemed necessary.

DST's - As deemed necessary.

Mud-Logging unit with chromatograph - As deemed necessary.

After production casing is installed, a cement bond log and GR/ casing collar log will be run to determine the top of cement and to correlate perforation depth intervals. Productive zones will then be perforated and swab tested. Water produced during testing will be contained in the temporary reserve pit. All produced oil will be stored and sold. Gas will be flared during testing.

DST/RFT, if run, will adhere to the following requirements:

Initial opening of DST tools shall be restricted to daylight hours. A DST may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which allows sufficient visibility and is vapor-proof for safe operations). Packers can be released, but tripping shall not commence before daylight unless prior approval is obtained from the Authorized Officer. Closed chamber DST's (such as RFT logging tools) may be performed day or night.

If hydrocarbon liquids are encountered during the test, surface flow shall be aborted and the remaining fluid in the drill pipe reversed to surface storage tanks. Separation & storage equipment for the anticipated recovery shall be properly installed before the test begins.

8. Abnormal Conditions:

Abnormal conditions such as abnormal temperatures or pressures are not anticipated. Reservoir pressure in the Ferron interval is only anticipated to be 1200 psi or equivalent a pressure gradient of 0.3 psi per vertical foot of depth.

Potential hazards such as H2S are not anticipated based on offset drilling experience.

9. Anticipated Starting Dates and Notification of Operations:

BLM Notification Requirements (Price BLM Office - 435-636-3600):

Location Construction

48 hours before commencing

Location Completion

Prior to moving the drilling rig on site 24 hours before commencing operations

Spud notice BOPE Test

24 hours before commencing operations 24 hours before commencing operations

Casing & Cement First Production

Within 5 days after new well begins producing

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in suspended status without prior approval from the Authorized Officer. If operations are to be suspended, prior approval of the Authorized Officer will be obtained and notification will be given before operations resume.

A completion rig will be used for completion operations. All conditions of this approved plan will be applicable during all operations conducted with the completion rig.

Spills, blowouts, fires, leaks, accidents, or any other unusual incidence shall be reported in accordance with the requirements of NTL-3A or its revision.

ANADARKO PETROLEUM CORPORATION (APC) FERRON COALBED METHANE HELPER FIELD CARBON COUNTY, UTAH

STANDARD OPERATING PRACTICES

II. MULTI-POINT-SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

3

- a. Proposed and existing wells are located within approximately 6 miles north of Price, Utah.
- b. Proposed routes to location: (Reference site specific Topographic, Access, and Area Maps provided in individual Application for Permit to Drill (APD).
- b. Location and description of roads in the area: A network of existing roads already exists within the project area. Three classes of roads will be used for access; collector roads, local roads, and access roads.
 - Collector Roads are existing roads or planned roads necessary for support of
 existing facilities. These roads provide access to larger blocks of land and connect
 with, or are an extension of an existing public road system. The design speed is 25
 mph and width of travel way is 20-30 feet.
 - Local Roads are existing roads or planned roads that provide the internal access for the development of the field. The design speed is 20 mph and width of travel way is 20-24 feet.
 - Resource Roads are existing roads or planned roads that provide the final segment
 of access to a wellsite. The design speed is 15 mph and width of travel way is 1624 feet.

The overall network of existing roads is displayed in Plate 2-1 of the Ferron Natural Gas Environmental Impact Statement (FNG EIS), individual access maps, and individual area maps included in the APD.

d. Plans for improvement and/or maintenance of existing roads: The existing roads used for access to facilities will be maintained in the same or better condition as existed prior to the commencement of operations and in accordance with Figure 2-1 of the FNG EIS. Routine maintenance will be done on a year round basis or as ground and site conditions permit. Summer maintenance will involve blading and/or gravel additions. Winter maintenance will involve blading of snow and summer-like maintenance when necessary and permitted by weather conditions. Routine maintenance shall be performed during periods when soils are dry enough to adequately support construction equipment. Soils will be deemed too wet if construction equipment creates ruts more than six inches deep.

Planned Access Roads:

a. Roads will be constructed using standard equipment and techniques such as the crown-and-ditch method (Surface Operating Standards for Oil & Gas Exploration and Development – USDOI / BLM 1989 3rd Edition). Heavy equipment will clear subsoil and topsoil materials from the road surface. Both materials will be windrowed (topsoil from access road construction shall be windrowed along the uphill side of the road for uses as a seed bed top coating during road rehabilitation for future redistribution during reclamation. All roads will be constructed with, adequate drainage and erosion control features/structures (e.g., cut and fill slopes and drainage ditch stabilization, relief and drainage culverts, water bars, wing ditches, and rip-rap). When needed, two to four inches of sand and gravel will be placed on newly constructed roads to provide a year round travel way surface. The maximum disturbed width will not exceed seventy feet with a twenty-four foot running surface.

During the construction and drilling phases, dust will be controlled by the use of water or an approved dust retardant, as directed by the Authorized Officer (AO). Road construction or routine maintenance shall be performed during periods when soils are dry enough to adequately support construction equipment. Soils will be deemed too wet if construction equipment creates ruts more than six inches deep. All roads will be maintained in as good or better condition than existing condition and in accordance with Figure 2-1 of the FNG EIS.

- b. Maximum grades: Maximum road grades will not exceed 15% as per FNG EIS.
 - New roads will be constructed to avoid critical soil areas, where possible. Where roads
 must be allowed, new roads will be constructed in accordance with agency-specified
 design standards to minimize watershed damage.
 - On critical soils, road grades greater than 10 percent will be avoided. The Authorized
 Officer (BLM or FS) may allow grades in excess of 10 percent with a maximum
 length of 1,000 feet.
 - Road construction on slopes in excess of 25 percent will not be allowed.
- c. Location: New roads that will be constructed for access off of the existing roads are indicated on site specific Topographic, Access, and Area Maps provided in the individual APD. New roads will be designed to avoid straight line-of-sight bulldozing and will be planned through wooded areas to take a curvilinear path. Loop roads to access wells will not be used.
- d. Drainage: Roads will be designed to divert storm water runoff and reduce erosion by:
 - Proper design and installation of erosion control structures, such as water bars and diversion channels.
 - Road ditch turnouts shall be equipped with energy dissipaters.
 - Use of rock energy dissipators and gravel dispersion fans or other designs where roads interrupt overland sheet-flow of water to convert this channelized runoff back to sheet flow.
 - Cut banks, road drainages and road crossings shall be armored or otherwise designed to prevent headcutting.
 - The road surface will be center crowned with ditches on each side of road. Slopes will have a maximum slope of 3:1.

2. <u>Planned Access Roads (continued)</u>:

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- f. Culverts will be used where necessary during the drilling phase of operations. Future evaluation will be made for the further additions of culverts if the road is to have long-term use. Maintain stream channel stability road crossings on channels having 10 year flows by:
 - Crossing designs shall be based on cross-sections, longitudinal profile, and other pertinent physical characteristics specific to each crossing.
 - A culvert diameter of 30 inches or greater shall be engineered to allow flows to pass through the crossing at the same velocity and position (i.e., on the floodplain or in the channel) as will occur if the crossing were absent.
 - Bankfull flow shall be determined and crossings designed to pass this flow within the channel. Flows in excess of this quantity shall be channeled separately through the crossing (i.e., on the floodplain).
 - Flows shall not be converged from a floodplain into a channel when passed through by a road crossing. Multiple culverts or combination low-water crossing designs are be encouraged in these circumstances.
 - Where multiple culverts are used, the minimum cumulative capacity of all culverts shall be the 10-year flow.
 - Floodplain culvert outlets shall be equipped with energy brakes and dispersion fans if
 needed to preserve existing flow velocity and position. Such stream crossing designs
 will preserve the physical dimensions of channels such as slope, width, depth, pool/riffle
 ratio, etc.

3. Locations of existing wells:

Reference site specific area map attached to individual APD's.

4. Location of Tank Batteries and Production Facilities:

Figure 2-5 in the FNG EIS depicts the typical production well pad and production facilities. All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match the standard environmental colors, as determined by the AO and in accordance with the FNG EIS. This will include all facilities except those required to comply with O.S.H.A. (Occupational Safety and Health Act) regulations. These will be painted the color stipulated by O.S.H.A. All facilities will be painted within six months of installation or as soon as possible when seasonal weather permits.

Gas meter runs for each well, if needed, will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The gas measurement facilities will be installed on each well location. The gas meters will be calibrated in place prior to any deliveries. Test for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration reports will be submitted to Price Field Office.

All meter measurement facilities will conform to API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

Three types of pipelines will be used for production facilities. They are gas gathering pipelines, produced water gathering pipelines, and high-pressure gas delivery pipelines. The gas and water gathering pipelines will deliver gas and water from the well to the Central Production Facility (CPF) and produced water disposal facilities, respectively. The high-pressure pipeline will connect the CPF to gas transmission lines. Most pipelines will be buried underground. However, some pipelines may be laid above ground where rocky conditions result in more potential environmentally damaging and expensive construction methods. On critical soils, pipelines will avoid slopes in excess of 15 percent. Pipeline construction on slopes in excess of 25 percent will be determined on a site-specific basis. Site specific determinations will be made by the AO.

In general, all three pipelines will be installed in rights-of-way along access roads. Gas and water gathering lines will be placed together in the same ditch parallel to the access roads (Figure 2-1 FNG EIS). High-pressure pipelines will be installed in a separate ditch. Gas and water production pipelines will be made of polyethylene or steel pipe with a diameter of 2-20 inches. Manholes will be constructed and strategically placed to provide access for maintenance and operational purposes. Barricades painted yellow for safety will mark and protect manholes. High-pressure pipelines will be made of steel with an outside diameter of 2-10 inches.

Pipeline construction will be a planned sequence of operations along or with access roads. The path will first be cleared of trees and heavy brush by blading the surface. Where feasible, trees will be avoided. Brush and woody vegetation will be left in place and driven over as necessary. Construction will use the following steps: (1) pipe stringing, (2) trench excavation, (3) pipe lowering, (4) pipe padding, and (5) trench back filling. Materials, equipment, and techniques, including quality assurance control checks, will follow the standards for industry. The pipeline trench will be excavated mechanically with a track excavator to a depth that allows 3.5 feet of material to be placed on top of the pipeline. Trench width will range from 18-36 inches depending on number of pipelines and pipe diameters to be placed in the trench. Earthen materials will be back filled immediately following installation.

5. Location and Type of Water Supply:

3

Water supply for drilling and completion purposes will be furnished by a water truck and will be obtained from the Price River Municipal Water District hydrant located at 1800 East 800 North, Price, Utah. This water supply is subject to change if a more economic source can be found.

6. Source of Construction Material:

Native material will be used for road surfacing and pad construction. Should additional construction material be required, it will be the responsibility of the dirt contractor to locate and permit (if necessary) use of that material.

7. Methods of Handling Waste Disposal

All reserve pits will be lined. Produced waste water will be confined to lined pits for a period not to exceed 90-days after initial production.

Trash will be confined in covered containers and hauled to an approved landfill. Burning of waste or oil is not approved, and soil material will be kept on site for recontouring.

No bore holes will be used for disposal of waste materials. Human waste will be contained and will be disposed in accordance with county regulations.

8. Ancillary Facilities:

Not applicable for drilling operations in this area.

9. Wellsite Layout:

Construction of a well pad primarily will involve preparing a level area of approximately 1.0 - 1.4 acres. Pad size will vary depending on drilling contractor selected for the project and will be a minimum of 165 feet by 250 feet up to a maximum of 200 feet by 300 feet (Refer to site specific Location Layout plat submitted with individual APD's).

Drill pads and facility sites shall be designed and constructed to prevent overland flow of water from entering or leaving the sites through the use of berms, terraces and grading to form depressions

Where topography permits, well sites will be positioned to prevent "sky lining". Existing vegetation and topographic features will be used to screen wells, facilities, and roads from the viewshed of Key Observation Points. To eliminate broadside views of pumping units, design well locations so the pumping units are situated "in line" with Key Observation Points. When installing chain link fences, use non-reflective materials to reduce visibility from a distance.

The locations will be cleared of vegetation. Topsoil will be stripped prior to any construction and stockpiled. The pad will then be graded using standard cut-and-fill techniques of construction using a bulldozer, grader, or both. If the AO determines site-specific conditions warrant, the pad will be surfaced with sand or gravel to minimize disturbance of soils and to promote efficient drainage.

A reserve pit (maximum dimensions of 50' wide x 130' long x 8' deep) will be excavated and may be plastic lined with a liner of at least 12 mills. The AO will determine whether a plastic lined pit is necessary based on the onsite inspection.

The reserve pit will be fenced on three sides prior to drilling activity and closed off on the fourth side after drilling is finished. Fencing will be four strands of barbed wire or 48-inch woven wire with one strand of barbed wire above the woven wire. All corners will be braced. The fence construction will be on cut or undisturbed ground and the fence will be maintained in a livestock tight condition.

Plans for Restoration of Surface:

The Price Field Office Manager will be notified at least 24-hours prior to commencing reclamation work.

Final decommissioning, reclamation, and abandonment of the Ferron Natural Gas Project's facilities will occur at the end of the facilities' economic life. APC will reclaim and revegetate each of its facilities (well pads, roads, and central production facilities) according to accepted procedures. Although subject to revision following appropriate standards, general reclamation procedures are described next. These procedures will be finalized for each facility individually during the APD process.

Reclamation of Facilities

Reclamation of individual facilities will involve three primary components: backfilling and grading, redistributing soils, and installing structures to control erosion. Each of these components is outlined below.

Backfilling and Grading

Following decommissioning and the removal of the individual facility's surface equipment, reclamation will begin with backfilling, if necessary, and grading of the site to approximate original contours. Specifically:

- Reclamation will start immediately upon completion of construction, unless prevented by weather conditions. Disturbed areas will be restored to approximately the original contour.
- All pits will be reclaimed to a natural condition similar to the rest of the reclaimed area and must be restored to a safe and stable condition.
- Pipelines will be cleaned by filling with water or nitrogen and pigging to remove the water or nitrogen and then abandoned in place to avoid renewed surface disturbance.
- Reclamation and abandonment of pipelines and flowlines will require backfilling original cuts, reducing and grading cut and fill slopes to conform to the adjacent terrain, replacement of surface soil materials, water barring, and revegetation.
- Reclamation on sites with critical soils will be graded using slopes of 5 percent or less where feasible and grading the site so as to collect water for revegetation. Site-specific evaluation by the surface managing agency may allow for modification to this standard.
- In general, APC will leave well pads and roads on federal lands roughed up somewhat to facilitate the capture of water from precipitation.
- After well plugging and abandonment, roads constructed by APC not required for the landowner's transportation system will be closed. Reclamation may include ripping, scarifying, water barring, and barricading. Stockpiled soil, debris, and fill materials will be replaced on the roadbed.
- Water bars will be constructed on road grades or slopes, if required by BLM. Spacing of water breaks
 depends on slope and type of soils present. For most soil types, the following spacings will be used:

Slope	Spacing
2 percent	200 feet
2-4 percent	100 feet
4-5 percent	75 feet
>5 percent	50 feet

Temporary erosion control measures such as mulch, jute netting, or other appropriate methods will be
used on unstable soils, steep slopes, and wetland areas to prevent erosion and sedimentation until
vegetation becomes established.

- Dry holes, depleted producers, and disposal wells will be abandoned according to Onshore Oil and Gas
 Order No. 2.
- Subsurface power lines will be abandoned in place. Above-ground powerlines will be dismantled and removed.
- Access roads will be reclaimed unless the landowner and/or land manager wishes to keep any roads and accept responsibility for future road maintenance.
- All existing recreational trails identified in the 1998 Carbon County Trails Plan that are disturbed by APC will be reclaimed to pre-development conditions upon abandonment of individual roads and locations. Reclamation of company-constructed roads throughout the Project Area will be determined by the Authorized Officer on a case-by-case basis in consultation with the County.

All disturbed areas will be subject to final grading, but will remain in rough condition to help ensure the stability of topsoil after its redistribution. Leaving the graded surface in a roughened condition will also improve moisture permeability between the soil/spoil interface. Compacted areas, such as roads, will be ripped to a depth of 4 to 12 inches.

Redistribution of Soils

After the site has been backfilled (if necessary) and regraded, topsoils and subsoils that were stripped and stockpiled before the initial construction will be redistributed across the disturbance. The timing of this redistribution will depend on completion of backfilling and grading. It will be advantageous for redistribution to occur before the fall or spring seeding windows.

Before the stockpiled topsoil and subsoil are redistributed, representative samples will be analyzed to identify their physical and chemical characteristics. These characteristics will be used to identify any amendments that may be applied to soils to facilitate the establishment of the vegetative cover.

Topsoil and subsoil will be removed from stockpiles using dozers. Subsoil, if available, will be spread evenly over disturbance using dozers working along the contour, when practical. This will be followed by redistribution of topsoil over the subsoil using the same technique and equipment.

Steep slopes may preclude redistribution along the contour in some areas. In these situations, topsoil will be graded to ensure a uniform and stable thickness consistent with reclamation and revegetation requirements. Before seeding, topsoil will be chisel-plowed to alleviate compaction and promote water infiltration.

In general, all topsoil and usable subsoil stripped and stockpiled for each facility will be redistributed evenly across that facility. In the unlikely event that a significant surplus of soil has been stockpiled in a specific location, it will be used to supplement supplies at one or more other sites where topsoils or subsoils are deficient. Additional usable soil may be recovered from areas where mapping shows that less soil or no soil is available. Recovery of this additional soil during stripping will increase the thickness of the respread.

Revegetation

Site-specific revegetation procedures for each facility will be developed by APC in coordination with the BLM (Price Field Office), UDWR, and UDOGM. Revegetation procedures and plans will meet

applicable requirements outlined in the Surface Operating Standards for Oil and Gas Exploration and Development (BLM and Forest Service 1989), the Environmental Assessment Supplement on Cumulative Impacts on Oil and Gas Categories, Price River Resource Area (BLM 1984a) and the Solid Minerals Reclamation Handbook H-3042-1 (BLM 1992).

All disturbed sites will be reclaimed and revegetated according to 43 CFR Part 3160. The overall goal of reclamation is to establish a diverse, effective, and permanent vegetation cover of the same seasonal variety and utility as the vegetation native to the affected area, and capable of supporting the planned post-well site land uses on disturbed areas. The prompt establishment of a protective plant cover and recovery of productivity levels compatible with the proposed post-well site land uses will be accomplished by implementing the reclamation plan described herein.

The revegetation plan has been designed to meet short- and long-term reclamation goals by: 1) controlling erosion and sedimentation, 2) reestablishing a vegetative cover that is ecologically comparable to native pre-disturbance conditions, and 3) restoring livestock grazing, wildlife, watershed, and aesthetic values to meet pre-operation land use objectives.

Revegetation will occur after final grading and redistribution of subsoil and topsoil activities have taken place. Revegetation communities representative of the native plant communities that existed before the disturbance occurred will be established.

Revegetation will occur in a series of steps. These steps will be:

- Disturbed areas will be revegetated after the site has been satisfactorily prepared. Site
 preparation may include ripping, contour furrowing, terracing, reduction of steep cut and fill
 slopes, water barring, or other procedures.
- Reclamation on big game crucial winter range will include hand planting of seedling browse plants and use of seedling protectors.
 - On all cut slopes, seeding will extend from the bottom of the ditch to the top of the cut slope. On
 embankment slopes, the seeding will extend from the roadway to the toe of the slope. Seeding
 all borrow pit areas and all sidecast slopes in areas of full bench construction also will be seeded.
 - Seedbed preparation will be conducted immediately after grading, topsoiling, and subsoiling.
- Seeding and/or planting will be repeated until satisfactory revegetation (to pre-disturbance conditions) is accomplished, as determined by the BLM or other landowner. Mulching, fertilizing (if specifically required in general the BLM will not require the application of fertilizer), fencing or other practices may be required.
- Seeding will be coordinated with other reclamation activities to occur as soon after seedbed preparation
 as possible and within 90 days of soil redistribution. Interim revegetation of sites to be stabilized before
 permanent revegetation, such as sediment control structures or topsoil stockpiles, will be conducted as
 soon after construction as possible.
- Disturbances will be seeded using the appropriate revegetation mixture. Seeding will occur from October 1 to November 15 and from February 1 to March 31.
- Broadcast-seeded areas will be chained, harrowed, cultivated, dozer-tracked, or raked, as needed, to firm
 the seedbed and cover seed.

- Certified weed-free hay or straw mulch will be evenly spread over and crimped into the seeded area at rates dependent on seeding method and slope, as needed.
- Revegetated areas will be grazed by livestock at an approved level during the reclamation liability period.

Seedbed Preparation

Seedbed preparation will be conducted immediately after grading, subsoiling, and topsoiling, and if conducted, fertilizer application. On level to gentle slopes, the seedbed will be disked and harrowed along the contour to breakup large clods. On steeper slopes, rocky sites, or on areas too narrow to negotiate equipment, the soil surface will be left in a roughened condition. An irregular seedbed will provide microsites for plant germination and reduce soil movement on steeper slopes.

Alternative techniques include the use of barriers, check dams, erosion stops, matting, and roughened surfaces. These treatments can be implemented with various kinds of straw or hay bales, nettings, and mattings to effectively reduce overland flow. If gullies deeper than 9-inches should form, the gullies will be blocked with one of the above-mentioned treatments and given the opportunity to stabilize naturally, through the growth of vegetation.

Disk/Chisel Plowing

Before seeding, which will be initiated as soon as practical and within 90 days of final grading, topsoiled sites will be ripped or chisel-plowed to alleviate compaction and promote water infiltration. Chisel-plowing is a highly effective means of temporary stabilization prior to vegetation establishment.

Seeding Methods

Drill seeding will be used on most of the disturbed well site areas. This technique results in proper depth placement of seed and promotes good contact between seed and soil. Drill seeding will be done along the contour wherever the surface is not level.

Broadcast seeding will be employed on rocky areas, on steeper slopes, and on small disturbances. Seed will be broadcast using a manually-operated, cyclone-type, bucket spreader; a mechanical blower; or hydroseeder. Seed will be frequently mixed to discourage settling. Where practical, broadcast seeded areas will be chained, harrowed, or cultipacked to cover the seed. Where slope conditions allow, broadcast seeded areas will be dozer-tracked perpendicular to the slope. On small, isolated, or inaccessible sites, hand raking will be used to cover seed and ensure good soil-to-seed contact.

If hydroseeding is used, seed, fertilizer (if used), and mulch at a rate of approximately 250 pounds/acre will be sprayed in one application. Where hydromulching is used, a second application will spray additional mulch and a tackifier at the manufacturer's recommended application rate.

Timing of Seeding

Revegetation will occur after final grading and redistribution of subsoil and topsoil activities have taken place. Seeding will be coordinated with other reclamation activities to occur as soon after seedbed preparation as possible and within 90 days of soil replacement. Fall seeding (September to November) is recommended based on local soil moisture conditions, germination requirements of selected species, and adaptation of seed to soil temperature. Spring seeding (March to May) will be

practiced if areas are ready for revegetation and access is possible. Mixed seedings, one seeding to plant cool season plants in early fall and one seeding to plant warm season plants in spring, will be timed to avoid competition between species and avoid seed distribution problems. Interim revegetation of sites (i.e., on the topsoil storage piles to be stabilized before permanent revegetation) will be conducted as soon after construction as possible.

Mulching

Mulching aids in the control of erosion, retention of soil moisture, and addition of supplemental organic material to the soil. Mulch will be evenly distributed over the seeded area at rates dependent on seeding method and slope. Certified weed-free straw or grass hay mulch will be applied at a rate of 1 to 2 tons/acre on drill seeded areas and at least 1.5 tons/acre on steeper slopes of greater than 10 percent. Mulch will be anchored into the seedbed using a mulch crimper or disk, tackifier, or netting. If used, hydromulch will be applied at a rate of at least 1.0 tons/acre. A tackifier will be used on hydromulched areas in the fall and on areas requiring prompt stabilization. A temporary cover crop of a suitable annual grain, such as annual rye, may be seeded to control erosion until a permanent cover can be established.

Reclamation of Roads

Road locations and design criteria are developed to implement the goals of transportation planning. New road construction, or reconstruction, by APC will be performed to BLM standards consistent with the needs of the users and spelled out in the Surface Operating Standards for Oil and Gas Exploration and Development (BLM and Forest Service 1989). The BLM has designated and defined three classes of roads that may be constructed: Resource, Local, and Collector.

At the request of the landowner, roads will be retained as permanent structures or reclaimed. Roads will be reduced to the designated running surface width and the adjacent roadbed will be ripped, topsoil replaced, and the site revegetated following the cessation of operations. Natural drainage patterns will be restored, all installed crossings will be removed, roadbeds will be ripped and any cut and fills will be blended to conform to existing topography before topsoil replacement and seeding. Light use access roads that predate the well site operation will be left in their existing condition.

Seed Mixtures

APC will use seed mixes adapted to different geomorphic and environmental settings to restore vegetation communities. These mixes may be adjusted for site-specific conditions. The general mixes and the vegetation types to which they apply are:

Seed mixtures have been developed for general land types throughout the Project Area. They are based on erosion control, forage production, elevation, soils, vegetation communities and average annual precipitation zones. The mixtures show the plant species and the pounds per acre of pure live seed (PLS) to be planted.

The following seed mixture will be planted along service road borrow ditches, around the edge of drill pads with a production well, and surrounding other production and maintenance facilities. The purpose for this seeding is to provide a "green strip" buffer to minimize fire hazards and prevent invasion and establishment of noxious weeds in areas that will receive continued disturbance for the life of these areas.

Table A-1

Common Plant Name	Scientific Name	Pounds per acre (PLS)*
Forage kochia	Kochia prostrata	2
Wyoming big sagebrush	Artemisia tridentata wyomingensis var. Gordon Creek	1
Douglas low rabbitbrush	Chrysothamnus viscidiflorus	1
	TOTAL	4

The following seed mixtures are for areas that will receive final reclamation. Areas will be planted to protect them from soil erosion and to restore forage production.

سنرني	Table Δ=2	
Common Plant Name	Scientific Name	Pounds per acre (PLS)¹
Salt Desert Areas		
Grasses		
Indian ricegrass	Stipa hymenoides	2
Squirreltail	Elymus elymoides	2
Galleta	Hilaria jamesii	2
Forbs		
Lewis flax	Linum perenne lewisii	1
Palmer penstemon	Penstemon palmerii	1
Gooseberryleaf globernallow	Sphaeralcea grossulariifolia	0.5
Shrubs		
Forage kochia	Kochia prostrata	2
Rubber rabbitbrush	Chrysothamnus nauseosus	1
Fourwing saltbush	Atriplex canescens	2
Winterfat	Krascheninnikovia (Eurotia) l	anata2
	TOTAL	15.5
Sagebrush/Grass Areas		
Grasses		
Indian ricegrass	Stipa hymenoides	2
Squirreltail	Elymus elymoides	2
Thickspike wheatgrass	Elymus lanceolatus	1
Crested wheatgrass	Agropyron desertorum	RECEIVED 2
Forbs		MECLITE
Lewis flax	Linum perenne lewisii	MAY 1 0 2000
Palmer penstemon	Penstemon palmerii	•
Small burnet	Sanguisorba minor	DIVISION OF OIL, GAS AND MINING

Shrubs		
Forage kochia	Kochia prostrata	2
Whitestem rabbitbrush	Chrysothamnus nauseosus albicaulis	1
Fourwing saltbush	Atriplex canescens	2
	TOTAL	15
	C 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Pounds per acre
Common Plant Name	Scientific Name	(PLS) ¹
Pinyon-Juniper Areas		
Grasses		1.5
Thickspike wheatgrass	Elymus lanceolatus	1.5
Intermediate wheatgrass	Elytrigia intermedia	1.5
Squirreltail	Elymus elymoides	. 2
Crested wheatgrass	Agropyron desertorum	2
Forbs		
Lewis flax	Linum perenne lewisii	1
Palmer penstemon	Penstemon palmerii	1
Shrubs		_
Forage kochia	Kochia prostrata	2
Fourwing saltbush	Atriplex canescens	2
Wyoming big sagebrush	Arternesia tridentata wyomingensis var. Gordon Creek	1
Antelope bitterbrush	Purshia tridentata	1
	TOTAL	15
Mountain Brush Areas		
Grasses		
Sheep fescue	Festuca ovina	2
Smooth brome	Bromus inermis	2
Slender wheatgrass	Elymus trachycaulus	2
Intermediate wheatgrass	Elytrigia intermedia	1.5
Russian wildrye	Psathyrostachys juncea	1
Forbs		
Lewis flax	Limum perenne lewisii	1
Rocky Mt. Pensternon	Pensternon strictus	1
Sainfoin	Onobrychis viciifolia	0.5
Shrubs		
Forage kochia	Kochia prostrata	2
Wyoming big sagebrush	Artemesia tridentata wyomingensis var. Gordon Creck	0.5
Antelope bitterbrush	Purshia tridentata	1
Mountain big sagebrush	Artemisia tridentata var. vaseyana	0.5
True Mt. Mahogany	Cercocarpus montanus	1

Riparian Areas		
Grasses and Grasslike		
Reed canarygrass	Phalaris arundinacea	2
Streambank wheatgrass	Elymus lanceolatus riparium	4
Nebraska sedge ²	Carex nebrascensis	
Baltic rush ²	Juncus balticus	
Shrubs		
Coyote willow ²	. Salix exigua	
Skunkbush sumac	Rhus trilobata var. trilobata	2
Trees		
Narrowleaf cottonwood ²	Populus angustifolia	10 0 10 10 10 10 10 10 10 10 10 10 10 10
	TOTAL	8

Notes:

1. Seeding rate is listed as pounds per acre of pure live seed (PLS) drilled. Rate is increased by 50 percent if broadcast seeded.

Formula: pure live seed (PLS) = % seed purity x % seed germination.

2. Sedge and rush root mass plugs, willow cuttings and cottonwood bare stock plantings will be done the spring, within one month after high water flows, when the riparian water table and soil moisture will ensure planting success.

Rate of plantings per linear feet of disturbed stream bank is as follows: sedge and rush root mass plugs, one 4-inch diameter plug per 5 linear feet; willows, one cutting per linear foot; and cottonwood stock, one cluster planting of 7 trees per 25 linear feet. Individual cottonwood stock, within a planting cluster will be spaced two feet apart. The willows and cottonwoods will be planted adjacent to the stream bank in moist soil, yet above the normal water line.

Shrub seed sources will be from the states of Colorado or Utah and from areas above elevations of 4,000 feet above sea level. Seed from these sources will provide more winter tolerant plants, thus, increasing over-winter survival rates.

11. Surface and Minerals Ownership:

Unless otherwise specified in the site specific APD, The surface and the minerals are owned by the United States of America, and managed by the Department of the Interior, Bureau of Land Management.

12. Other Information:

In accordance with the Record of Decision concerning the Final Environmental Impact Statement for the Ferron Natural Gas Project, the following Environmental Protection Measures and Approval Conditions will be adhered to:

Surface disturbances within 660 feet of springs, whether flowing or not will be avoided.

- Blasting or geophysical drilling within 0.25 mile of a spring or water well will be avoided.
- Construction on frozen or saturated soils will be avoided. The Authorized Officer (BLM or FS)
 will determine what is wet, muddy, or frozen based on weather and field conditions at the time.
 This does not apply to maintenance of existing roads and wells.
- On critical soils, construction on slopes greater than 6 percent will be avoided. Where construction
 cannot be avoided, operations and facilities will be located to reduce erosion and improve the
 opportunity for revegetation.
- In accordance with a weed control plan developed for this project, APC shall treat and control noxious weed infestations within 100 feet of disturbed areas associated with well sites and facilities and roads or rights-of-way constructed or improved by APC, to the extent the infestation is caused by APC. A list of noxious weeds can be obtained from the BLM or the appropriate County Extension Office. If pesticide or herbicide will be used, a Pesticide Use Proposal will be submitted and approved prior to application of such substances.
- Selected roads in big game winter range habitats shall be gated and signed as per the executed Gate Agreement.
- In elk and mule deer winter range (crucial and high priority), exploration, drilling, and other
 development shall occur only during the period of April 16 to November 30. This shall not
 apply to maintenance and operation of producing wells. Exceptions to this limitation in any
 year shall be requested in writing to the Authorized Officer of the BLM or Forest Service.
- In elk and mule deer crucial winter range, all non-emergency workover operations, as defined in the FNG EIS, shall occur only during the period April 16 to November 30. APC shall provide notice for all emergency work requiring use of heavy equipment during the winter period (December 1 to April 15). The notice shall be provided within five days of the work.
- Permanent surface disturbance and occupancy shall be prohibited within 0.5 mile of raptor
 nests that have been documented as occupied within the 3-year period proceeding construction.
 Site-specific evaluations in coordination with USFWS and UDWR may allow for modifications
 to this requirement.
- Permanent surface disturbance and occupancy shall be prohibited within 1.0 mile of peregrine falcon nests Section 7, Endangered Species Act consultation with USFWS shall be required for modifications to this requirement.
- Potential conflicts with coal operations shall be coordinated with the coal and the authorizing agencies.
- Spills, leaks, and contaminated soils shall be cleaned up, excavated, or treated, to prevent
 pollution to surface or ground waters.
- To stabilize topsoil stockpiles, any areas left disturbed for more than one year shall have stockpiles seeded with mixtures specified by the authorizing agency.
- APC shall schedule non-emergency visits to project facilities from one hour after sunrise until
 one hour before sunset during the big game critical winter period.
- Potential effects to significant cultural resources resulting from direct and indirect project

impacts will be mitigated through the Programmatic Agreement developed between APC, BLM, SHPO, and the Advisory Council.

 During construction activities, APC shall install signs on access roads that are also used for recreation to warn users of heavy equipment and truck traffic. Sign placement on BLM lands will be determined by the AO.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFT 3162.2 and in accordance with the EIS for the Ferron Natural Gas Project.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.2.

The dirt contractor will be provided with an approved copy of the APD & Surface Use Plan.

Drilling rigs or equipment used during drilling operations on the wellsites will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization.

Unless previously conducted, a Class III archaeological survey will be conducted on all Federal Lands. All persons will refrain from collecting artifacts and from disturbing any significant cultural resources in the area. APC is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sties, or for collecting artifacts or fossils. APC will immediately bring to the attention of the Price Field Office Manager any and all antiquities or other objects of historic or scientific interest including, but not limited to, historic or prehistoric ruins, artifacts, or fossils discovered as a result of operations under this permit. APC will immediately suspend all activities in the area of the object and will leave such discoveries intact until told to proceed by the Price Field Office Manager. Notice to proceed will be based upon evaluation of the cultural significance of the object. Evaluation will be by a qualified professional selected by the Price Field Office Manager from a Federal Agency insofar as practical. When not practical, APC will follow the mitigation requirements set forth by the Price Field Office Manager concerning protection, preservation, or disposition of any sites or material discovered. Within five working days the Price Field Office Manager will inform APC as to:

- Whether the materials appear eligible for the National Historic Register of Historic Places
- The mitigation measures APC will likely have to undertake before the site can be used (assuming insitu preservation is not necessary); and,
- A time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate..

If APC wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Price Field Office Manager will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, in those situations where the Price Field Office Manager determines that mitigation, data recovery and/or salvage excavations are necessary, APC will bear the cost. The Price Field Office Manager will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Price

Field Office Manager that the required mitigation has been completed, APC will then be allowed to resume construction.

FERRON NATURAL GAS WILDLIFE STIPULATIONS

The following listed stipulations have been developed for the Ferron Natural Gas Project area. These include both standardized stipulations to address known recurring issues and special stipulations to address unique or unusual circumstances or issues that were discussed at the onsite with the proponent.

BIG GAME STIPULATIONS

- EPM 15: Gate and Sign Selected Roads in big game winter range habitats during Critical Period
- EPM 16 & 17: Winter Seasonal restriction (December 1 to April 15) on exploration, drilling, and other development on crucial and high priority winter range. Winter Seasonal Workover Restriction
- EPM 19: Critical Winter Range Browse Hand Planting (BLM-22)
- EPM 20: Big Game Minimum Disturbance Corridors/Site Location Standards
- EPM 21: Surface Disturbance Mitigation for Critical and High Priority Winter Range

RAPTOR STIPULATIONS

EPM 23, 24 & 26: Raptor Nest Site Protection Measures

EPM 23: Raptor Nest Site Temporary Disturbance Seasonal Closure

EPM 24: Raptor Nest Site Buffer Zone

EPM 26: Raptor Nest Site Survey

THREATENED and ENDANGERED AND BLM SENSITIVE SPECIES STIPULATIONS

EPM 25: Peregrine Falcon Nest Site Protection

EPM 27: Winkler Cactus Survey and Protection.

EPM 28: Sensitive Plant Species Survey

BLM SURVEY PROTOCOLS/SURVEY FORMS

Winkler cactus survey

Sensitive Plant Species Survey

Raptor Nest Site Survey

FERRON NATURAL GAS PROJECT AREA

PROPONENT: ANADARKO WELL #: HELPER FIELD

EPM-15 GATE AND SIGN SELECTED ROADS IN BIG GAME WINTER RANGE HABITATS DURING CRITICAL PERIOD Pg 1 of 1

- In order to minimize adverse effects of vehicle traffic on wintering big game and in accordance with the Cooperative Agreement signed by Texaco, Anadarko, Chandler, and BLM Price Field Office, the Companies will be required to construct and maintain gate closure at site(s) selected by BLM on the access roads under this Federal permit.
- Final gate placement and construction design will be provided by the authorized officer of the BLM after preliminary road construction has been completed. Although final gate placement will utilize topographic barriers to control access, construction design may require short segments of fence to tie into these natural barriers to prevent vehicle travel around the gate.
- Gates shall be constructed prior to December 1 of the year that the road is constructed. Gates shall be constructed of materials that meet or exceed the type and durability, strength of powder river gates.
- The Companies shall be responsible for locking all gates during the period between December 1 to April 15 of each year unless otherwise notified by BLM. They shall assure that all gates are locked throughout the specified period except as needed for ingress/egress, to avoid other users of the public land from becoming locked inside the closure areas.
- The Companies shall use locks throughout the project area that are keyed for the same key (or combination) and have duplicate copy protection. The Companies shall provide two keys (or combination) to BLM as well as provide additional keys upon request for BLM to provide to other authorized users requiring access during the closure period.

FERRON NATURAL GAS PROJECT AREA PROPONENT: ANADARKO WELL #: HELPER FIELD

EPM 16 & 17: WINTER SEASONAL RESTRICTION (DECEMBER 1 to APRIL 15) ON CRUCIAL AND HIGH PRIORITY WINTER RANGE. Pg 1 of 2

- <u>Restrictions on Construction Phase Activity:</u> Prohibit construction phase activity, described below, on big game high value and critical winter range during the period (December 1 April 15) without regard for land ownership.
- This condition would not apply to normal maintenance and operation of producing wells, described below. On nonfederal lands (where the federal government does not have either surface or subsurface ownership) the Companies would be allowed to conduct construction phase activity if needed to avoid breech of contract or loss of lease rights. In the event construction phase activity proceeds into the winter closure period on non federal interest lands, Companies would make available appropriate documentation to UDWR, upon request.
- Construction Phase Activity: Construction phase activity is considered to include all work associated with initial drilling and construction of facilities through completion, including installation of pumping equipment, connection with ancillary facilities and tie-in with pipelines necessary for product delivery.
- Companies would not be allowed to initiate construction activity unless it is reasonable to believe that such work can be finished to a logical stopping point prior to December 1 of that year. Specific activities considered to be covered by the seasonal closure include all heavy equipment operation including but not limited to the following:
 - Mobilization/Demobilization or operation of heavy equipment (crawler tractor, front end loader, backhoe, road grader, etc.)
 - -Construction activity (road construction or upgrading, pad, pipeline, powerline, ancillary facilities, etc.),
 - -Drilling activity (Operator would not propose or initiate drilling activity if the project could not reasonably be expected to be finished to a logical stopping point by the December 1 date of that year.)
 - -Seismic operation, detonation of explosives
- This seasonal closure would not apply to reconnaissance, survey/design and/or flagging of project work or other similar activity not requiring actions listed for heavy equipment operation.
- <u>Production Phase:</u> A well is considered to be in production phase when the well and ancillary facilities are completed to the point that they are capable of producing and delivering product for sale. It is noted that heavy equipment operation may be necessary in the performance of maintenance and operation of producing wells.
- Restriction on Non Emergency Workover Operations: The Companies will schedule non-emergency workover operations (defined below) on big game crucial and high value winter range outside the December 1 to April 15 date of the seasonal closure.
- Non-emergency Workover Operations: Workover operations to correct or reverse a gradual loss of production over time (loss of production of 20 percent or less over a 60 day period) is considered to be routine or non-emergency workover operations and would not be permitted during the December 1 to April 15 time frame.
- Emergency Workover Operations: Emergency work over operations are defined as downhole equipment failure problems or workover operation necessary to avoid shut in of the well or to avoid an immediate safety or environmental problem. Loss of production greater than 20 percent within a 60 day period is indicative of

	FERRON NA	ATURAL GAS PROJECT AREA	
PROPONENT:_	ANADARKO	WELL #: <u>HELPER FIELD</u>	

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pump failure and will be treated as an emergency workover operation. The Companies will submit Sundry notices to BLM within five days of the emergency workover operations between December 1 and April 15.

FERRON NATURAL GAS PROJECT AREA

PROPONENT: <u>ANADARKO</u>	WELL #: <u>HELPER FIELD</u>
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EPM 19: CRITICAL WINTER RANGE BROWSE HAND PLANTING

Pg 1 of 2

One or two browse species lists (checked below) are to be hand planted at the prescribed application rate and according to the following prescribed methods on critical winter range areas that are undergoing long term reclamation. This would include all pipeline corridors, berm around edge of drill pads, miscellaneous disturbed areas associated with construction such as staging areas for equipment, sidecast on road cuts, along side upgraded or new roads up to and including borrow ditch and in the termination of redundant access roads being closed. This planting shall be completed in the first planting window following reclamation.

Planting Methods:

Planting shall be accomplished using a labor force with specific experience in landscape restoration, hand planting methods and handling and care of browse tubling and or bareroot stock plants.

Browse plants to be utilized can be bareroot stock or tubling stock plants of 1 year old age class or greater.

Browse seedling protectors will be used to provided protection from browsing ungulates for two years. Seedling protectors will be of an open mesh rigid design that will break down when exposed to sunlight and that measures a minimum of 12 inches in length and 4 inches in diameter. The protectors will be secured around the browse seedlings.

Planting shall be completed in the spring (March 1- April 1) and or fall (November 1- December 1) planting windows.

Browse plants shall be stored and handled in such a manner as to maintain viability, according to the type of browse stock being used.

Planting Species and Application Rate:

Species	[] Sagebrush-Grass [Plants Per Acre] Pinyon-Juniper
Wyoming Sagebrush (Gordon Creek)	100	50
Fourwing Saltbush (Utah seed source collected at or above 5,000 feet elevation)	100	50
True Mountain Mahogany (Utah seed source)	0	50
Antelope Bitterbrush (Utah seed source)	0	50
Total	200	200
Suitable Substitutions:		
Prostrate Kochia	yes	yes
Whitestem Rubber Rabbitbrush Utah Serviceberry	no no	yes Y
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FERRON NATURAL GAS PROJECT AREA
PROPONENT: ANADARKO WELL #: HELPER FIELD

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Winterfat yes no

FERRON NATURAL GAS PROJECT AREA		
PROPONENT:	ANADARKO	WELL #: <u>HELPER FIELD</u>

EPM 20: BIG GAME MINIMUM DISTURBANCE CORRIDORS/SITE LOCATION STANDARDS Pg. 1 of 1

The subject permit application is proposed within a Big Game Minimum Disturbance Corridor (FEIS). In order to provide winter range protection for big game, the following Site Location Standards will be implemented to avoid or minimize disturbance and or occupancy within these corridors.

Based on a site specific evaluation by BLM and DWR, a well or facility may be relocated (within the limits of the 160 acre subdivision in which it is proposed.

	FERRON NATURA	AL GAS PROJECT AREA
PROPONENT:	ANADARKO	WELL #: <u>HELPER FIELD</u>

EPM 21: SURFACE DISTURBANCE MITIGATION FOR CRITICAL AND HIGH PRIORITY WINTER RANGE Pg. 1 of 1

- The subject permit application is proposed within critical and high priority winter range (FEIS) and subject to EPM 21 requiring acre for acre mitigation for surface disturbance on critical winter range. The following condition comes from a cooperative agreement between the Texaco, Anadarko, Chandler (Companies), BLM-Price Field Office, the Utah Division of Wildlife Resources and the National Fish and Wildlife Foundation. The Companies agreed to the following:
- 1. Contribute \$1,301.26 (1998 dollars) for each Federal interest well (Federal surface and or subsurface ownership) permitted and drilled by the Companies (or on behalf of Companies by its contractor) on big game critical winter range as depicted in the FEIS Ferron Natural Gas Project Area. (Wells meeting the above criteria for which payment will be required, will be referred to as "subject wells".) This contribution will be adjusted annually for inflation based on the Consumer Price Index (CPI), see Section II.C.6. for the reference source used for the determination of the CPI and the date in which this annual adjustment will go into effect.
- Since this mitigation program is designed to address impacts of all big game critical winter range surface disturbance (roads, well pads, pipelines, etc.), contributions will be required regardless of the success or failure of the subject well to produce.
 - a. The recorded date for spudding for each subject well (the first boring of a hole during the drilling of a well) will serve as the reference date triggering the requirement for the mitigation contribution.
 - b. Contributions will be submitted (in the form of an Company check, cashiers check or wire transfer) directly to the National Fish and Wildlife Foundation by the 1st of August and February for all subject wells spudded in the preceding six months as reported by the Bureau.
 - c. All contributions will be made payable to the "National Fish and Wildlife Foundation re, Proj 99-270" and reference the "Ferron Natural Gas Wildlife Habitat Impact Mitigation Fund".

FERRON NATURAL GAS PROJECT AREA ANADARKO WELL #: HELPER FIELD

EPM 23, 24 & 26: RAPTOR NEST SITE PROTECTION MEASURES

PROPONENT:_

Pg 1 of 2

- The subject permit application is proposed within or near known suitable raptor nesting habitat. In order to avoid potential adverse affects to nesting raptors protected under the Migratory Bird Treaty Act and/or the Bald Eagle Protection Act, the operator must comply with all applicable provisions below.
- Provisions check marked below are directly applicable to this Federal action, based on available data at the time of this review. Any other provisions, listed below (even if not check marked) may become applicable to this Federal action as updated raptor data becomes available.
- [X] Survey Requirement: (EPM 26) Conduct raptor surveys to determine the status of known nests and verify presence of additional nests in the affected area of this Federal action. Surveys are to be conducted by consultants qualified to conduct such surveys and approved by the authorized officer. All surveys would be conducted by helicopter during May of each year unless otherwise provided for in BLM's Raptor Survey Protocol developed for this project. The surveys are required to be completed in the same year as the proposed drilling/construction so that current nest activity status data are available prior to APD/Federal Permit approval. Cost for surveys and preparation of a report of the findings of the survey would be the obligation of the lease holder.
- [X] Raptor Nest Site Bufferzone Permanent Occupancy: (EPM 24) Upon the finding of the above survey (or other appropriate documentation) that the federal action lies within .5 miles of a raptor nest occupied (defined below) in any of the three years preceding the proposed date of construction, the federal action would be subject to the no surface occupancy provision stated below and provided for in the Ferron Natural Gas Project FEIS.
 - Permanent surface disturbance and occupancy (i.e. oil and gas production facilities) is prohibited within 0.5 miles of raptor nests which have been documented as occupied within three years.
- This provision will apply as long as the nest status remains unchanged (i.e. documented as occupied within any of the three years preceding the proposed date of construction. If the nest is documented as unoccupied for a period of three or more consecutive years, it will be deemed to have been abandoned and the federal action will no longer be subject to the no surface occupancy provision.
- In the event a federal action involving a permanent facility, as described above, is proposed within the .5 mile bufferzone, BLM will complete a site specific evaluation. The evaluation will consider site terrain features such as topographic and vegetative screening, and existing intrusions which may already exist in the bufferzone. Specific standard guidelines used in this analysis are available in the Price Field Office. The site specific analysis and its findings will be attached to this stipulation as a recommendation to the BLM manager. If the site specific evaluation determines that the federal action can be accommodated with no significant adverse affect to the current or future productivity of the nest, the no surface disturbance/occupancy provision referenced above would not be applicable.
 - [X] Site Specific Evaluation Attached [] Special Mitigation Measures Attached
- [X] Raptor Nest Site Bufferzone Temporary Occupancy: (EPM 23) Any temporary surface disturbance and occupancy (i.e. road and pipeline line construction, etc.) associated with this federal permit, occurring within .5 miles of a raptor nest documented as occupied in one or more of the three years preceding the proposed date of construction must be conducted outside the nesting period of February 1 to August 15. This will include but not be limited to road construction or upgrading required to reach this well location. If such

FERRON NATURAL GAS PROJECT AREA

EPM 23, 24 & 26: RAPTOR NEST SITE PROTECTION MEASURES

Page 2 of 2

work is required to access this location with heavy equipment, the seasonal closure of February 1 to August 15 will also apply to the drilling of this well.

- [X] Maintenance and Operation of Existing Wells Within .5 miles of Raptor Nests: In the event a federal action is authorized and constructed and a raptor nest is subsequently built within .5 miles of the development, maintenance and operations involving workovers or heavy equipment operation under this federal action will be subject to the following conditions and notifications.
- The proponent is required to submit (at least 5 days in advance of proposed work) a sundry notice for all work over or maintenance operations requiring use of heavy equipment proposed during the raptor breeding season (February 1- August 15) and within the .5 mile bufferzone of any known raptor nest site. Upon receipt of this notification BLM in consultation with DWR and the USFWS would issue a determination on the activity status of the affected raptor nest. If the nest is found to be occupied, site specific protection measures would be developed to protect the nesting raptors and prevent conditions or actions that may result or contribute to a taking as defined under the Bald Eagle Protection Act and or the Migratory Bird Treaty Act.

To avoid the necessity for this provision, the operator is encouraged to schedule all such work outside of the nesting period, on wells subject to this provision.

Occupied Nest Site Definition:

An occupied raptor nest is defined, for the purposes of this stipulation, as any nest site exhibiting physical evidence of current use by raptors. Evidence may include but is not limited to: presence of raptors (adults, eggs or young) at the nest or within the nesting territory, presence of greenery in the nest, and/or presence of current year's whitewash at the nest or in the immediate vicinity of the nest.

FERRON NATURAL GAS PROJECT AREA

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PROPONENT:	ANADARKO	WELL #: <u>HELPER FIELD</u>	

EPM 25: PEREGRINE FALCON NEST SITE PROTECTION

Pg. 1 of 1

The subject permit application is proposed within or near known suitable habitat for peregrine falcons. Permanent surface disturbance and occupancy shall be prohibited within 1.0 mile of peregrine falcon eyries. Temporary surface disturbance may be allowed between August 16 and January 31 if determined by BLM, UDWR and USFWS not to affect the peregrine falcon. Section 7, Endangered Species Act consultation with USFWS shall be required for modifications to this requirement.

The American peregrine falcon was removed from the Federal List of Endangered and Threatened Wildlife on August 25, 1999. The peregrine will be monitoring by US Fish and Wildlife Service (USFWS) for the next 13 years. A plan for the monitoring will be developed by the USFWS and will be available for public review in the near future. This stipulation will remain until the USFWS montoring plan indicates that the protection of the peregrine falcon eyrie is no long warranted.

FERRON NATURAL GAS PROJECT AREA ANADARKO WELL #: HELPER FIELD

FDM 27.	WINKI	FD	CACTUS	PROTE	CTION

PROPONENT:_

Page 1 of 1

- "All APDs, Sundry Notices, and rights-of-way submitted for proposed wells and other surface-disturbing activities within Winkler cactus habitat shall be submitted before April 1 of any given year. This would allow the clearances for T & E plants at the optimum time. Any applications for surface-disturbing activities received after April 1 shall be held until the next year. On extremely dry years, the cactus does not surface or bloom and clearances shall be delayed until conditions are better, possibly until the next year."
- The subject permit application is proposed within or near known suitable habitat for Winkler cactus (<u>Pediocactus winklerii</u>). In order to avoid potential adverse affects to this species, the proponent/operator must conduct surveys to determine its presence or absence in the affected area of this Federal action. Surveys must comply with BLM protocol and be conducted by qualified consultants approved in advance by BLM. The protocol includes completing surveys on the cactus between April 15 and May 15 annually. Permit applications submitted after April 1 will be held until the next year when the clearance may be reliably completed.
- In the event this species is present in the affected area of this Federal Action, site modification or site specific mitigation measures will be developed by BLM and U.S.Fish and Wildlife Service to avoid or mitigate potential adverse impacts.
- <u>Site Modification:</u> Proposed facility location will be moved to avoid physical destruction of plants or habitat modifications (i.e., runoff patterns etc.) that may affect the species.
- Site Specific Mitigation: In the event physical impacts to this species can not be avoid by site modification, the Bureau would conduct a Section 7 Consultation with US Fish and Wildlife Service. If the action is approve the proponent will adhere to all mitigation required by Bureau after consultation with the US Fish and Wildlife Service. Site specific mitigation may include but is not limited to; transplanting, seed collection and hand planting seeds of the affected species etc.

FERRON NATURAL GAS PROJECT AREA
PROPONENT: ANADARKO WELL #: HELPER FIELD

EPM 28: SENSITIVE PLANT SPECIES PROTECTION

Pg 1 of 1

The subject permit application is proposed within or near known suitable habitat for special status plant species. In order to avoid potential adverse affects to these species, the proponent/operator must conduct surveys to determine presence or absence of the species checked below, in the affected area of this Federal action. Surveys must comply with BLM protocol and be conducted by qualified consultants approved in advance by BLM.

[] Catseye Cryptantha	[] Western Sweetvetch
(Cryptantha creutzfeldtii)	(Hedvsarum occidentale var. canone)

- In the event this species is present in the affected area of this Federal Action, site modification or site specific mitigation measures will be developed by BLM to avoid or mitigate potential adverse impacts.
- <u>Site Modification:</u> Proposed facility location will be moved to avoid physical destruction of plants or habitat modifications (i.e., runoff patterns etc.) that may affect the species.
- Site Specific Mitigation: In the event physical impacts to this species can not be avoid by site modification, the proponent will be required to mitigate impacts to affected plants. Site specific mitigation may include but is not limited to; transplanting, seed collection and hand planting seeds of the affected species etc.

BLM SURVEY PROTOCOLS/SURVEY FORMS

WINKLER CACTUS SURVEY PROTOCOL

Winkler Cactus (Pediocactus winklerii)- Surveys must be conducted during the flowering Timing of Survey: period for this species (April 15 to May 15), and only when the cactus is above ground.

Survey Method: Conduct pedestrian transects across all potential surface disturbed areas. Transects must be spaced no greater than 10 feet apart.

Survey Area: Survey area should include all potential surface disturbed areas plus the following for linear and spot disturbances. Linear disturbances (i.e. roads and pipelines) should include an area 300 feet on either side of centerline. For spot disturbances (i.e. well pads, facility locations, etc.) survey should extend 600 feet beyond anticipated disturbance.

Reporting Format and Schedule: The following documentation is required for the reporting of the findings of required surveys.

Field Survey Form Part 1: Complete separate field form for each distinct action (i.e. one for well pad #____, one for the access road/utility corridor to well pad #_____). Field form should include the following information.

Date:

Observer:

Type of Action:

Legal Location:

Proponent Name:

Federal Application/Permit #:

Presence/Absence Declaration:

Habitat Suitability Rating:

Field Survey Form Part 2: Complete for only those surveys in which the species was present.

Population Dynamics: include phenology, total count, estimated age class breakdown (seedlings, mature, dead/dying), condition, and trend.

Map: Include 8 ½ by 11 page size map @ 1:24,000 scale depicting location of proposed facilities, location of survey area and spot symbols or polygons showing location of plant species.

Photograph: Include photographs depicting (1) general survey area where plant occurs and (2) closeup of plant.

Avoidance Recommendations: Summarize site specific recommendations to avoid impacts to special status plant species.

Field Summary Spreadsheet: Summarize survey work and findings, present, not present, affect, no affect, in a spreadsheet form. Form should include the following data elements.

Date of Survey:

Legal Location:

Federal Permit Application Number (i.e. Well #, ROW #):

Presence/Absence Notation:

Affect/No Affect Notation:

Vegetative Community Type:

Habitat Suitability Rating:

Special Notification to Authorized Officer: Notify BLM within 5 days of discovery of Special Status Plant species, where an adverse affect is noted.

SPECIAL STATUS PLANT SPECIES SURVEY PROTOCOL

Timing of Survey:

Catseye Cryptantha- Surveys must be conducted during the flowering period for this

species (May 1 to June 15).

Western Sweetvetch- Surveys must be conducted during the period of July 15- August

31.

<u>Survey Method:</u> Conduct pedestrian transects across all potential surface disturbed areas. Transects must be spaced no greater than 200 feet apart.

Survey Area: Survey area should include all potential surface disturbed areas plus the following for linear and spot disturbances. Linear disturbances (i.e. roads and pipelines) should include an area 300 feet on either side of centerline. For spot disturbances (i.e. well pads, facility locations, etc.) survey should extend 600 feet beyond anticipated disturbance.

Reporting Format and Schedule: The following documentation is required for the reporting of the findings of required surveys.

Field Survey Form Part 1: Complete separate field form for each distinct action (i.e. one for well pad #______, one for the access road/utility corridor to well pad #______). Field form should include the following information.

Date:

Observer:

Type of Action:

Legal Location:

Proponent Name:

Federal Application/Permit #:

Presence/Absence Declaration:

Habitat Suitability Rating:

Field Survey Form Part 2: Complete for only those surveys in which the species was present.

Map: Include 8 ½ by 11 page size map @ 1:24,000 scale depicting location of proposed facilities, location of survey area and spot symbols or polygons showing location of plant species.

<u>Photograph:</u> Include photographs depicting (1) general survey area where plant occurs and (2) closeup of plant.

Avoidance Recommendations: Summarize site specific recommendations to avoid impacts to special status plant species.

<u>Field Summary Spreadsheet:</u> Summarize survey work and findings, present, not present, affect, no affect, in a spreadsheet form. Form should include the following data elements.

Date of Survey:

Legal Location:

Federal Permit Application Number (i.e. Well #, ROW #):

Presence/Absence Notation:

Affect/No Affect Notation:

Vegetative Community Type:

Habitat Suitability Rating:

<u>Special Notification to Authorized Officer:</u> Notify BLM within 5 days of discovery of Special Status Plant Species, where an adverse affect is noted.

RAPTOR NEST SITE SURVEY/ACTIVITY STATUS PROTOCOL

Two raptor survey protocols are outlined below, addressing different levels of survey scope. The first is a protocol for a broad based intensive raptor nest site inventory. The second is an intensive survey protocol to assess activity status of a small number of known nest sites.

INTENSIVE BROAD BASED RAPTOR SURVEY PROTOCOL

Survey Timing: Surveys are to be conducted from May 10 through June 1.

Survey Area: Surveys should include all nesting habitat within .5 miles of any proposed surfaced disturbed areas.

Survey Method: Surveys shall be conducted by helicopter.

Observer Qualifications: Consultants must be qualified and experienced in raptor survey methodology and knowledgeable of raptor behavior/biology and must obtain any applicable licence or permits that may be required by the State wildlife agency.

Field Survey Data Collection: Collect following information during survey.

Map: Provide 1:24,000 scale topographic map depicting location of all raptor nest sites with spot symbols to differentiate nest type, an alpha character to differentiate species and a numeric character to differentiate between nests for survey year. It would be preferable to utilize a 5 digit number to use as the numeric designator with the survey year occupying the first 2 digits and the last three. This or some other similar system should be used to help build a chronological history of raptor nest data. With this system, only newly constructed nests would be assigned new nest numbers, data for existing nests would simply be filled in from year to year. This would reduce the time and expense of taking GIS points on every nest every year.

Spot Symbols:	Alpha Designator (Spe	ecies)	Numeric
Designator:			
Cliff Stick Nest +	Golden Eagle	GE	00-000
Cliff Scrape @	Redtail Hawk	RT	
Tree Nest *	Ferruginous Hawk	FH	
Ground Nest #	Prairie Falcon	PF	

Data: Record for all nest sites observed

Activity Status: -Tended (record observed evidence; i.e. adults nearby, fresh whitewash, greenery, nest maintenance

- -Active (record number and age of young)
- -Inactive-nest in good repair
- -Inactive-nest in disrepair (old dilapidated)
- -Unable to locate

Reporting Format and Schedule: The following documentation is required for the reporting of the findings of required surveys.

Field Survey Report Form Part 1: Complete following documentation for all survey projects.

Date (s):	
Observer (s):	
Type of Action:	
Description of Survey Area:	
Hours of Flight Time Expended:	
Tabulate and Discuss Summary of Findings:	

Report number (and percentage breakdown) of nests by nest type, by species, activity status, total nests surveyed, and percentage change from the previous years survey. Described how this years data compares with the previous years survey findings.

Field Summary Spreadsheet: Summarize survey work and findings, present, not present, affect, no affect, in a spreadsheet form. Form should include the following data elements.

Date of Survey:

Legal Location: (Tws. Rng. Sec. Qtr. Qtr.) and UTM

Ouadrangle Map Name:

Species:

Activity Status:

Number and Age of Young in Nest:

INTENSIVE LIMITED SCOPE RAPTOR SURVEY

Follow procedures outlined for the Broad based Survey with the following exceptions:

Survey Timing: Surveys are to be conducted from April 1 to April 15.

Survey Area: Surveys should include all nesting habitat within .5 miles of any proposed surfaced disturbed areas.

<u>Survey Method:</u> Surveys shall be conducted by vehicle on existing established roads and trails or on foot and consist of the following minimum standards.

Complete three site visits (on separate days during the survey period, April 1- April 15) to nest site.

Each visit should consist of spending 4 consecutive hours of observation from a logical vantage point during either the morning hours (7:00-11:00 am) or evening hours (3:00-7:00 pm).

Survey should not be conducted during adverse weather conditions (ie rain, or with winds greater than 15 mph). Observers should not approach closer than .25 miles to the nest.

13. Lessee's or Operator's Representatives and Certification:

REPRESENTATIVE

Name:

Bruce Darlington

Phone: Address:

281-874-1673 Anadarko Petroleum Corporation

17001 Northchase Drive Houston, Texas 77060

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsites and access routes, that I am familiar with the conditions which currently exist, that the statements made in this plan are to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by

ANADARKO PETROLEUM CORPORATION

and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

April 18, 2000

St Drilling Engineer

RECEIVED

MAY 1 0 2000

APD RECEIVE	D: 05/10/2000	API NO. ASSIGNE	D: 43-007-3070)2
OPERATOR:	HELPER FED C-3 ANADARKO PETROLEUM CORP (N0035) JUDY DAVIDSON	PHONE NUMBER: 28	31-875-1101	
PROPOSED LO	CATION: 24 130S 100E : 0934 FSL 1971 FWL	INSPECT LOCATN Tech Review	BY: / / Initials	Date
BOTTOM:	0934 FSL 1971 FWL	Engineering		
CARBON HELPER	(18)	Geology		
LEASE NUMBE	1-Federal R: UTU-71391 ER: 1-Federal RMATION: FRSD	Surface		
Plat Bond: (No. N Potas N oil S Water (No. RDCC (Dat	Tolor Reviewed: Fed[1] Ind[] Sta[] Fee[]	Eff Date: Siting: 4/00 7	nit	/ £ 920 between w
	Helper Field "SOP", separate	fil.		



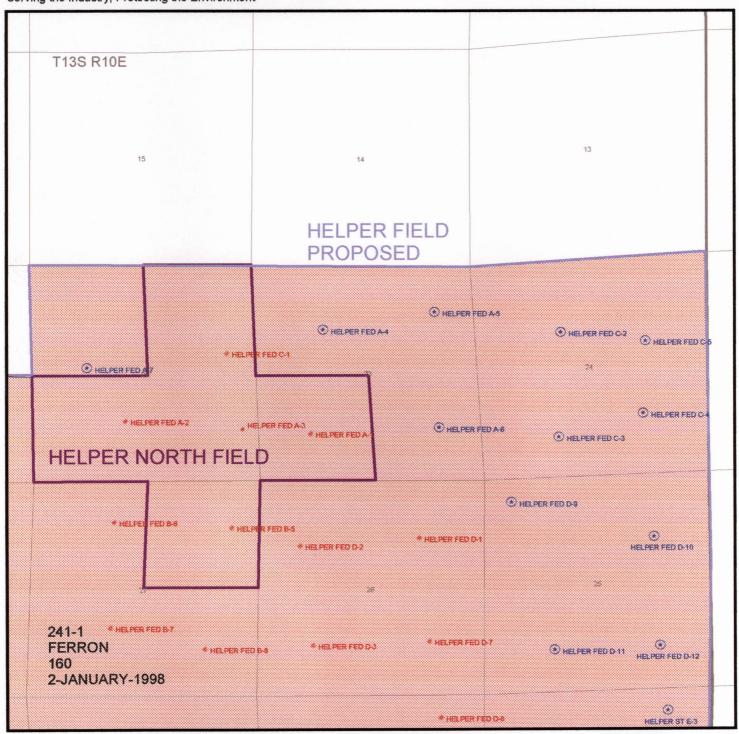
Serving the Industry, Protecting the Environment

OPERATOR: ANADARKO PETROLEUM CORP. (N0035)

FIELD: HELPER PROPOSED (018)

SEC. 24, T 13 S, R 10 E,

COUNTY: CARBON CAUSE NO: 241-1 160 ACRES



PREPARED DATE: 12-MAY-2000 To: Lisha Cardova

From: Judy Davidson

Please attach the
enclosed Formation

to be to the
belger tederal
C-3 well.

Thanks,

Judy

							FORMATIC	ON TOPS AND G	EOLOGIC MARI	KERS								
Well Name	APC Lease No /Fed or State Lease No	Location Mer/Twin/Ring/Sec		Foota	ge Call	s	Ground Level Elevation	Depth to Bluegate Shale	Subsea Bluegate Shale	Depth to Ferron	Subsea T/Ferron	Depth to Top Coat	Subsea Top Coal	Depth to Base of Coal	Subsea Base of Coal	Depth to Tunank Shale	Subsea Tununk Shale	ΤD
Helper Federal A-5	U-58434	T13S R10E Sec 23	1151	FNL	1038	FEL	6594	2934	3660	4034	2560	4049	2545	4179	2415	4239	2355	4580
Helper Federal A-7	U-58434	T13S R10E Sec 22	2537	FNL	1315	FWL	6394	2634	3760	3734	2660	3749	2645	3879	2515	3939	2455	4280
Helper Federal B-15	U-71392	T13S R10E Sec 28	1551	FNL	1072	FEL	6534	2374	4160	3474	3060	3489	3045	3619	2915	3679	2655	4020
Helper Federal B-16	U-71392, St. 45801	T13S R10E Sec 28	1363	FNL	627	FWL	6171	2071	4100	3171	3000	3186	2985	3316	2855	3376	2795	3720
Helper Federal C-2	U-71391	T13S R10E Sec 24	1800	FNL	2019	FWL	6894	3194	3700	4294	2600	4309	2585	4439	2455	4499	2395	4840
telper Federal C-3	U-71391	T13S R10E Sec 24	1500	FSL	1500	FWL	6720	2870	3850	3970	2750	3985	2735	4115	2605	4175	2545	4515
lelper Federal C-4	U-71391	T13S R10E Sec 24	1508	FSL	1558	FEL	6605	2725	3880	3825	2780	3840	2765	3970	2635	4030	2575	4370
telper Federal C-6	U-71391, 87-01-4-00	T13S R10E Sec 21	888	FSL	1386	FEL	6583	2613	3970	3713	2870	3728	2855	3858	2725	3918	2665	4260
Helper Federal C-7	U-71391, 87-01-4-00; St. 45	T13S R10E Sec. 21	843	FSL	1411	FWL	6285	2375	3910	3475	2810	3490	2795	3620	2665	3680	2605	4020
Helper Federal D-10	UTU-68315	T13S R10E Sec 25	1500	FNL	1363	FEL	6547	2497	4050	3597	2950	3612	2935	3742	2805	3802	2745	4140
Helper Federal D-11	UTU-68315	T13S R10E Sec. 25	995	FSL	1698	FWL	6563	2263	4300	3363	3200	3378	3165	3508	3055	3568	2995	3910
Helper Federal D-12	UTU-68315	T13S R10E Sec 25	1097	FSL	1225	F£L.	6457	2177	4280	3277	3160	3292	3165	3422	3035	3482	2975	3820
Helper Federal D-9	UTU-68315	T13S R10E Sec 25	660	FN#.	660	FWL	6382	2332	4050	3432	2950	3447	2935	3577	2805	3637	2745	3980
telper Federal E-1	430670008000	T13S R10E Sec. 29	2066	FSL	1015	FEL	6206	2006	4200	3106	3100	3121	3085	3251	2955	3311	2895	3650
Helper Federal E-4	U-71675, St 45801	T13S R10E Sec 29	528	FNL	1000	FEL	6168	2138	4030	3238	2930	3253	2915	3383	2785	3443	2725	3760
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State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt Governor Kathleen Clarke Executive Director Lowell P. Braxton

Division Director

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax) 801-538-7223 (TDD)

July 5, 2000

Anadarko Petroleum Corporation 17001 Northchase Dr Houston, TX 77060

Re:

Helper Federal C-3 Well, 934' FSL, 1971' FWL, SE SW, Sec. 24, T. 13 South,

R. 10 East, Carbon County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-30702.

Sincerely,

John R. Baza

Associate Director

er

Enclosures

cc:

Carbon County Assessor

Bureau of Land Management, Moab District Office

Operator:		Anadarko Petroleu	ım Corporation	
Well Name & Number_		Helper Federal C-	3	-
API Number:		43-007-30702		
Lease:		UTU-71391		
Location: SE SW	Sec. 24	T. <u>13 South</u>	R. 10 East	

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338
- Contact Robert Krueger at (801) 538-5274.

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

ED STATES DEPARTMENT OF THE INTERIOR



Form approved. Budget Bureau No. 1004-0136 Expires: December 31, 1991

6 2000

		OF LAND MANAGEM			7	
	APPLICATION FOR	R PERMIT TO DRILL	OR DEEPEN		5. LEASE DESIGNATION AN	ID SERIAL NO
a. TYPE OF WORK	DRILL X DEEPE	N N			5. CEASE DESIGNATION AND UTU-7	
b TYPE OF WELL	<u> </u>				6. IF INDIAN, ALLOTTEES O	
or [GAS WELL X OTHER	R - COALBED METHANE	SINGLE MULTIP	\neg	B. IF INDIAN, ALLOT SEES C	M TRIDE NAME
WELL	WELL X OTHER	- COALDED ME IMANÉ	ZÔNE LE	<u> </u>	7. UNIT AGREEMENT NAME	
NAME OF OPERATOR					7. UND AGREEMENT NAME	`
		PETROLEUM CORPOR	RATION			
. ADDRESS AND TELEPH			AMAIRMA 4444		8. FARM OR LEASE NAME \	
	17001 Northchase Drive,		281/875-1101		9. API WELLING	deral C-3
 LOCATION OF WELL (F At surface 	Report location clearly and in accordance	with any State requirements.)			43_00'	7-30702
A COLUMN	001=011=1	DAU 0141 041 04 =	420 D40E		10. FIELD AND POOL OR W	· · · · · · · · · · · · · · · · · · ·
	934 FSL 1971 F	WL, SW Section 24, T	138 R10E		•	r CBM
At proposed prod. zone	منتخب معسديوسف	5140 BN 65-2 SS =	420 D40E		11 SEC. T.R.M. OR BLK. A	
	934 FSL 1971 F	FWL, SW Section 24, T	13\$ R10E			
						T13S R10E
14. DISTANCE IN MILES	AND DIRECTION FROM NEAREST TOW	N OR POST OFFICE. niles North of Price.Ut			12. COUNTY Carbon	Utah
15. DISTANCE FROM PRO		mes North of Price, Ot	16. NO. OF ACRES IN LEASE	17. NO OF A	CRES ASSIGNED TO THIS	
	Y OR LEASE LINE, FT.	934'	925'		160	-
18. DISTANCE FROM PR			19. PROPOSED DEPTH	20. ROTARY	OR CABLE TOOLS	
NEAREST WELL, DR APPLIED FOR, ON TH	HILLING, COMPLETED, OR HIS LEASE, FT.	2050'	4450'	1	Rotary	
21. ELEVATIONS (Show v					22. APPROX. DATE V	ORK WILL START.
		6655' GL			06/01	/2000
23.			AND CEMENTING PROGRAM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH]	QUANTITY OF CEMEN	ıT
11"	8 5/8" J-55	24#	300'		180 cu. Ft.	
7-7/8"	(5-1/2" K-55	(15.5#)	4450	<u> </u>	250 cu. Ft.	
	(previously submitted and a Nationwide BLM Oil & Gas Le Utah Oil & Gas Lease Bond 2 Utah Bond of Lessee 203521	a Map. s sections of pit, pad, & and geologic markers erating Practices Plan pproved) part of this A sase Bond Number 1535 24351 (expiration date 0	for the Helper Field, Carbon Co APD. FLARING O GAS IS SUI 571 Dated 1/1, 06-30-2000)	DIVIE DIL, GAS BURTY, UT. OR VENTIN BJECT TO 1 780	VIL4A 5 5 VAL ATTACH	:13
pertinent data on subsurfa	CRIBE PROPOSED PROGRAM: If propose ace locations and measured and true vertices.		esent productive zone and proposed new pr nter program, if any. Judy Dav		proposal is to drill of geep	en grectionally, give
SIGNED	ly Hands	<u></u>	-	ry Analyst	DATE	05/09/2000
(This space for Federal o	or State office use.)		CC	<u>N</u> F]	DENTIA	L
Application approval doe OF APPROVAL IF ANY: APPROVED BY			ose rights in the subject lease which would Assistant Figure Division of	eld Man	ager,	eron. CONDITIONS JUL 6 200

ANADARKO PETROLEUM CORP. T13S, R10E, S.L.B.&M. Well location, HELPER FEDERAL #C-3. N86'43'E - 43.66 (G.L.O.) located shown in the SE 1/4 SW 1/4 of Section 24, T13S, R10E, S.L.B.&M. Carbon 1976 Brass Cap 0.5' High, Pile County, Utah. LOT 1 of Stones LOT 2 BASIS OF ELEVATION 98*26' (G.L.O.) BASIS OF BEARINGS IS THE WEST LINE OF THE NW 1/4 OF SECTION 25, T13S, R10E, S.L.B.M. 2608.14' (Meos. SPOT ELEVATION AT THE SOUTHEAST CORNER OF WHICH IS ASSUMED FROM G.L.O. INFORMATION LOT 3 SECTION 36, T13S, R10E, S.L.B.&M. TAKEN FROM LOT 4 TO BEAR NO'30'W. THE DEADMAN CANYON QUADRANGLE, UTAH, CARBON COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6200 FEET. 19LON J. 9E, 01.50/ LOT 8 LOT 7 LOT 6 LOT 5 1965 Bross Cop. 0.5' High. Pile of Stones 1976 RM 1976 RM LOT 9 Bross Cop **LOT 10** Brass Cap LOT 11 0.2' High, 0.2' High, Pile of PHe of Stones Stones SCALE **LOT 12** CERTIFICATE HELPER FEDERAL #C-3 THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM 1971' FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY Elev. Ungraded Ground = 6655 SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE NO5'09'35 LOT 16 BEST OF MY KNOWLEDGE AND BELLE **LOT 13 LOT 14** LOT 15 1965 Bross Cop REGISTERED LAND SURVEYORY 2.0' High, Pile of Stones, 4" PVC Pipe REGISTRATION NO. 161319 1976 Bross Cap N88"29"18"E - 3122.89" (Meas.) 4.0' High, 3' NWLY. STATE OF UTAH .. 1976 Brass Cap N88°30'23"E — 3123.19' (Meas.) 2 Bearing Trees UINTAH ENGINEERING & LAND SURVEYING 2.0' High, Pile 0.5' High, Pile of Stones of Stanes 85 SOUTH 200 EAST - VERNAL, UTAH 84078 DIVISION GAS AND (435) 789-1017 DATE DRAWN: DATE SURVEYED: SCALE LEGEND: 8-30-99 B-27-99 1" = 1000'LATITUDE = 39'40'35" REFERENCES PARTY LONGITUDE = 110'45'13" = 90' SYMBOL G.L.O. PLAT D.COX D.L.K. L.J. PROPOSED WELL HEAD. FILE WEATHER ANADARKO PETROLEUM CORP. WARM = SECTION CORNERS LOCATEDZ

Anadarko Petroleum Corporation Helper Federal C-3 Lease U-71391 SE/SW Section 24, T13S, R10E Carbon County, Utah

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Anadarko Petroleum Corporation is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by ES 0128 (Principal - Anadarko Petroleum Corporation) via surety consent as provided for in 43 CFR § 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR § 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR § 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to field representatives to insure compliance.

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A. DRILLING PROGRAM

- 1. The proposed BOPE is in a 2M configuration, and is adequate for this depth in this area. Installation, testing and operation of the system shall be in conformance with Onshore Oil and Gas Order No. 2.
- 2. The requirements for air drilling, found in Onshore Oil and Gas Order No. 2, part III, E (Special Drilling Operations), shall be followed.
- 3. The production casing proposed in Anadarko's standard operating procedures (5½ inch, 17#, N-80) shall be used instead of the lower grade casing proposed in the APD (5½ inch, 15.5#, K-55).
- 4. Concurrent approval from the State of Utah, Division of Oil, Gas & Mining is required before conducting any surface disturbing activities.

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B. <u>SURFACE USE</u>

- 1. The following seed tables in the Standard Operating Practices shall be followed as conditions of approval:
 - Table A-1, Seed Mixture for Green Strip Areas

 Table A-2, Seed Mixture for Final Reclamation, Pinyon-Juniper Areas
- 2. The following wildlife stipulations in the Standard Operating Practices shall be followed as conditions of approval:
 - EMP 16 & 17, Winter Seasonal Restriction on Crucial & High Priority Winter Range
 - EMP 19, Critical Winter Range Browse Hand Planting
 - EMP 21, Surface Disturbance Mitigation for Critical & High Priority Winter Range
- 3. A determination will be made regarding lining the mud pit at the time of construction.
- Within six months of installation, surface structures shall be painted in the following flat, earth tone color: Olive Black (5WA20-6). This Fuller O'Brien color is for reference only. Any brand of paint may be used provided the colors match. Any facilities that must be painted to comply with OSHA standards are exempt.

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DIVISION OF OIL, GAS AND MINING

C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

Building Location- Contact the BLM Natural Resource Protection Specialist at least 48-hours prior to commencing construction of location.

<u>Spud</u>- The spud date will be reported to BLM 24-hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the Moab Field Office within 24-hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

<u>Daily Drilling Reports</u>- Daily drilling reports shall detail the progress and status of the well and shall be submitted to the Moab Field Office on a weekly basis.

Monthly Reports of Operations- In accordance with Onshore Oil and Gas Order No. 1, this well shall be reported on Minerals Management Service (MMS) Form 3160, "Monthly Report of Operations," starting the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with MMS.

<u>Sundry Notices</u>- There will be no deviation from the proposed drilling and/or workover program without prior approval. "Sundry Notices and Reports on Wells" (Form 3160-5) will be filed, with the Moab Field Office, for approval of all changes of plans and subsequent operations in accordance with 43 CFR § 3162.3-2. Safe drilling and operating practices must be observed.

<u>Drilling Suspensions</u>- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Moab Field Office. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

<u>Undesirable Events</u>- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the BLM in accordance with requirements of NTL-3A.

<u>Cultural Resources</u>- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Price Field Office is to be notified.

<u>First Production</u>- Should the well be successfully completed for production, the Moab Field Office will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five business days following the date on which the well is placed into production.

A first production conference will be scheduled as soon as the productivity of the well is apparent. This conference should be coordinated through the Price Field Office. The Price Field Office shall be notified prior to the first sale.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the Moab Field Office not later than thirty-days after completion of the well or after completion of operations being performed, in accordance with 43 CFR § 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the Moab Field Office.

Venting/Flaring of Gas- Gas produced from this well may not be vented/flared beyond an initial, authorized test period of 30 days or 50 MMcf, whichever first occurs, without the prior, written approval of the Moab Field Office. Should gas be vented or flared without approval beyond the authorized test period, the well may be ordered shut-in until the gas can be captured or approval to continue the venting/flaring as uneconomic is granted. In such case, compensation to the lessor shall be required for that portion of the gas that is vented/flared without approval and which is determined to have been avoidably lost.

<u>Produced Water-</u> An application for approval of a permanent disposal method and location will be submitted to the Moab Field Office for approval pursuant to Onshore Oil and Gas Order 7.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the Moab Field Office for off-lease measurement, off-lease storage and/or commingling (either down-hole or at the surface).

<u>Plugging and Abandonment</u>- If the well is completed as a dry hole, plugging instructions must be obtained from the Moab Field Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Moab Field Office within thirty-days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR § 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Price Field Office or the appropriate surface managing agency.

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TABLE 1

NOTIFICATIONS

Notify: Don Stephens (work: 435-636-3608, home: 435-637-7967) or

Mike Kaminski (work: 435-636-3640, home: 435-637-2518) of the BLM, Price Field Office

for the following:

2 days prior to commencement of dirt work, construction and reclamation;

1 day prior to spudding;

50 feet prior to reaching the surface casing setting depth

If the people above cannot be reached, notify the Moab Field Office at (435) 259-2100. If unsuccessful, contact the person listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab Field Office at (435) 259-2100. If approval is needed after work hours, you may contact the following:

Eric Jones, Petroleum Engineer

Office: (435) 259-2117 Home: (435) 259-2214



JUL 1 0 2000 DIVISION OF

OIL, GAS AND MINING



STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING JAN 08 2201

DIVISION OF GAS AND MINING

ENTITY ACTION FORM

0035

Operator:

Anadarko Petroleum Corporation

Operator Account Number: N 1755-0

Address:

17001 Northchase Drive

Houston city

77060 ΤX zip state

Phone Number: (281) 874-3441

Well 1

API Number	Well	Name	QQ	Sec	Twp	Rng	County
43-015 -30702	Helper F	Helper Federal C-3		24	135	10E	CARBON
Action Code	Current Entity Number	New Entity Number	SE SW 24 13S Spud Date		Entity Assignment Effective Date		
Α	99999	13011	9	/11/00		9-1	1-00

Comments:

1-9-01

Well 2

API Number	Well Name		୍ୟପ	QQ Sec Twp		Rng County			
43-007-30682	Helper Federal C-4		NW.SW	NW SW 24 13S			CARBON		
Action Code	Current Entity Number	New Entity Number	Š	Spud Date			Entity Assignment Effective Date		
Α	99999	13012		/26/00		9-20	-00		

Well 3

API Number	Well	l Name	QQ	Sec	Twp	Rng	County	
43-007-30693	Helper F	Federal C-5	SW NE	24	135	10E	CARBON	
Action Code	Current Entity Number	Spud Date			Entity Assignment Effective Date			
Α	99999	13013	9	9/29/00		9-29-00		
Comments: 1-9-0/	CON	VFIDENTIAL						

ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

Signature Environmental Regulatory Analyst

Name (Please Print)

Jennifer Berlin

January 29, 2001

Qnadar**k**o[♯]

CONFIDENTIAL

Bureau of Land Management 82 East Dogwood Moab, Utah 84532 Attn: Ms. Marie McGann

Re:

Form 3160-4

Well Completion Report and Log

Helper Federal C-3

Dear Ms. McGann:

Please find enclosed, a Form 3160-4, (in duplicate) Well Completion Report, Wellbore Diagram, and Logs for the above mentioned well.

Should you require any additional information, please contact me at (281) 873-3899.

Best regards,

ANADARKO PETROLEUM CORPORATION

Sr. Technical Assistant

JAN 3 n 2001

DIVISION OF OIL, GAS AND MINING

Cc: Bureau of Land Management Price River Resources Area 125 South, 600 West Price, Utah 84501

> Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 P.O. Box 145801 Salt Lake City, Utah 84114-5801

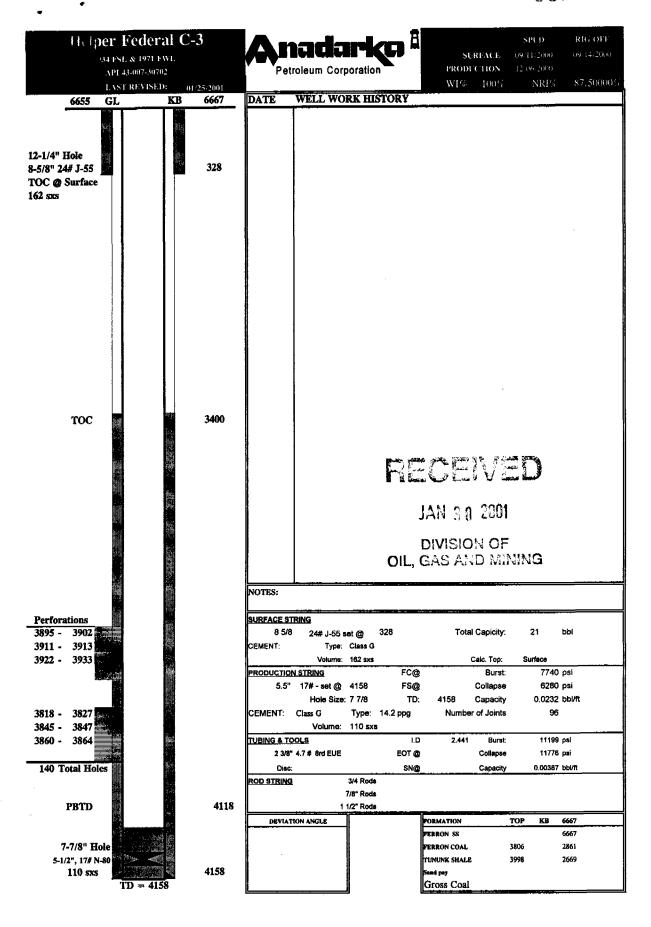
Form 3160-4 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires:November30, 2000

	WELL COMPLETION OR RECOMPLETION REPORT AND LOG										5. Lease Serial No. UTU - 71391					
la. Type	of Well	Oil We	ll 🔲 Gas W	ell 🗌	Dry X	Other	COAL	BED METH	IANE			6. If In	dian	,Allotee	or Tribe Na	ame
b. Type	of Co mpletio n	: X	New Well er	☐ Worl	Over 🔲	Deepen		Plug Back	Di	ff.Re	svr,.	7. Unit	or C	A Agree	ementName	eandNo.
2. Named							N-	ITEN	TAL			8. Leas	e Na	meandV	Well No.	
Anadark 3. Addres	<u>ko Petroleu</u>	um Corp	<u> </u>		<u>,</u>		13a	PhoneNo. ((include :	area	code)				RAL C-3	
	_{ss} North <u>cha</u> se	Dr., H	ouston, 1	exas	77060		Ju.		375 - 11		coucy	9. API 43-		1 No. 7 - 30702	2	
4. Locatio	onof Well(Repo	ort location	clearly and	in accorda	ince with							10. Fie	ldan	dPool, o	r Explorat	ory
At surfa	ace 934'F	SL & 19	971' FWL,	SW SE	ECTION 2	24, T13	S-R1	0E				11. Sec	., T.,		or Block a	
	orod. interval r	_	elow SAME								1	l2. Co	unty		ON 24-13	ie
	depth SAME					T					$\overline{}$	CARBO			UTAI	
14. DateS	-		eT.D. Reach	ed		16. Dat	teCom D & A 12/6	T X] Ready	to P				ons(Dr,	RKB, RT,	GL)"
9/11		419	L4/00	PlugBac	kT.D.: M	<u> </u>		700 18'	20 T	Dentl	nBridge F				ONE	
18. 10ta11	Depth:MD TVD _	41:	19.	Tiugbac		VD	·····		20.		ibriage i	iug set		TVD		
21. Typel	Electric & Othe	rMechan	icalLogs Run	(Submite	opy of eac	:h)			22. Wa			No.			Submitanaly	
COLVCCI	L/GR/NEUTR	ON /DENS	ITV /a	20-	01					s DST ection	' run ıaiSurvey	No ?	_ `		Submitrepor Yes (Subm	
	gand Liner Rec			-								L		<u> </u>	<u>, </u>	
Hole Size	Size/Grade	Wt.(#ft.)	Top (MD)	T		Stage Cem Depth	enter	No.of Sk			rry Vol. (BBL)	C	emen	t Top*	Amou	nt Pulled
8 5/8"	J-55	24#	0	328	B.	Бери		Type of C 162 S		<u> </u>	DDL	 s	URF.	ACE		NONE
5 1/2"	N-80	17#	0	415				110 S					340	0,		NONE
			1													
																<u></u>
				<u> </u>											<u> </u>	
24. Tubin					 	<u> </u>	(3.65)	15 . 5	1 0.00		<u> </u>	1 5		(N.CD)	D- li F	Donath (ACD)
Size 2 3/8"	Depth Set (1 4012	MD) Pa	cker Depth (M	D) S	ize	Depth Set	(MD)	Packer De	pin (MD	<u>'</u>	Size	Dej	pun se	et (MD)	Packer	Depth (MD)
	icingIntervals					6. Perfor	ationF	Record								
	Formation		Тор	Bot	tom			Interval	and the	Size	2 979	No. Ho	les	<u> </u>	Perf. Sta	
<u>A)</u>	FERRON COA	<u>L</u>	3818.	39:	33,	3818	3, 3,	JET OA	T V	i6; E	HD.	140)		OP	EN
B)				┿												
C) D)								_ JAN :	} n 20	01						
	Fracture, Treat	ment Cer	nentSaueeze	Etc				DIVIS	10/10	\ <u></u> _			<u>(</u>			
	Depth Interval	1110111/002	ricinoqueeze	, 2			OIL	AnGAS IN			naC		1	U(UNFIDE	NTIAL
	8'-3933' 0	A	FRAC	W/381,	000 # 1	6/30 SA		ND 175,0				GEL			PERIC	-
													en v		EXPIR	. – –
														C/18.	19:0	-02
													-		- Secretary Secretary	war-named and
Date First	Test	Hours	Test	Oil	Gas	Water	Oil		Gas		Produc	tion Me	thod			
Produced 12/6/00	P2712/00	Tested 24	Production	BBL 0	MCF 137	108	Grav	N/A	Gravity . 586	<u> 2</u>	ł			PUMP	2"X 1	1/2"X 12
Choke Size OPEI	Tbg. Press. Flwg.	Csg. Press. 75	24 Hr.	Oil BBL 0	Gas MCF 137	Water BBL 108	Gas: Ratio		Well Status	PRO[OUCING					
	duction-Interv															
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Grav		Gas Gravity		Produc	tion Me	thod			
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Ratio		Well Status					_		

b. Produc	ction Int	ervalC								•
ate First roduced	Test Date	Hours Tested	Test Production	Gu BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method	·
oke e	Tbg. Press. Flwg.	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status		· *
. Producti	ion-Interva	D D		.1		-				
ite First oduced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method	,
oke se	Tbg. Press. Flwg.	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status		
Disposi	itionof Ga	s (Sold,used f	or fuel, vented	i, etc.)		SOLD TO	O QUESTAR			
Cumma		ousZones (Inc	Jude A quifor	e).				31 Forms	ition(Log) Markers	
Show all i	importar luding de	itzones of po	rositvand co	ntents th	nereof: Co d, time to	ored intervool open, i	alsand all drill-s flowing and sh	stem		
Formati	ion	Тор	Bottom		Descrip	tions, Con	tents, etc.		Name	Тор
				 	F			EFDOON		Meas Depth
ERRON C	ľ	3806	3998					FERRON		3806
JNUNK S	SHALE	3998	4158					TUNUNK	SHALE	3998
		ks(includeph	uggingproced	iure):	pji dale a					
1. Electr	rical/Med	hanicallogs (l fullsetreq'o	i)	2. Geolog	gicReport	3. DST Repo	rt 4. Directio	onaBurvey	
5. Sundr	ryNoticef	or plugginga	ndcementve:	rificatio	n 6.Core	Analysis	7. Other			
. I hereby	ycertify th	natthe forego	ingandattach	edinfor	mationis co	mpletean	lcorrect as deter	minedrom all av	vailablerecords(see attach	edinstructions)*
-		DANIEL					Т	itle PRODUCT	TION ENGINEER	
Signatur	.e	any!	J Viet	<u>u</u>	_		r	o _{ate} 1/26/01	L	
		U	•							



Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING	
CDW	

X - Change of Operator (Well Sold)				Operator Na	ame Chan	ge/Merger						
The operator of the well(s) listed below has chan	ged, e	ffective	:	4/1/2013								
FROM: (Old Operator): N0035-Anadarko Petroleum Corporation PO Box 173779 Denver, CO, 80214				TO: (New Operator): N3940- Anadarko E&P Onshore LLC PO Box 173779 Denver, CO 802014								
Phone: 1 (720) 929-6000				Phone: 1 (720)	929-6000							
CA No.	-			Unit:								
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS				
See Attached List												
OPERATOR CHANGES DOCUMENT. Enter date after each listed item is completed 1. (R649-8-10) Sundry or legal documentation was 2. (R649-8-10) Sundry or legal documentation was	s rece	eived fro		_		4/9/2013						
3. The new company was checked on the Departu	nent (of Com	merce	, Division of Co	orporation	s Database on:	•	4/10/2013				
4a. Is the new operator registered in the State of U. 5a. (R649-9-2) Waste Management Plan has been re 5b. Inspections of LA PA state/fee well sites compl. 5c. Reports current for Production/Disposition & S.	ceive ete or undri	n: es on:		Yes 4/10/2013 4/10/2013	- - -	593715-0161						
6. Federal and Indian Lease Wells: The BL					_		DIA	NT/A				
or operator change for all wells listed on Federa 7. Federal and Indian Units:	u or i	ndian ie	ases o	n:	BLM	4/2/2013	BIA	N/A				
The BLM or BIA has approved the successor	ofun	it oners	tor for	· wells listed on:		N/A						
8. Federal and Indian Communization Ag		_			•	17/11	-					
The BLM or BIA has approved the operator is			-			N/A						
9. Underground Injection Control ("UIC"					orm 5 Trai		ity to					
Inject, for the enhanced/secondary recovery un							4/10/2013					
DATA ENTRY:	- p- 0,	, •••			(-)							
1. Changes entered in the Oil and Gas Database	on:			4/11/2013								
2. Changes have been entered on the Monthly Op		r Chan	ge Sp	read Sheet on:	•	4/11/2013						
3. Bond information entered in RBDMS on:				4/10/2013	-							
4. Fee/State wells attached to bond in RBDMS on			,	4/11/2013	-							
5. Injection Projects to new operator in RBDMS of		D/Marr		4/11/2013	- NT/A							
6. Receipt of Acceptance of Drilling Procedures for	or AP	D/New	on:		<u>N/A</u>	-						
BOND VERIFICATION: 1. Federal well(s) covered by Bond Number:				WYB000291								
 Federal well(s) covered by Bond Number: Indian well(s) covered by Bond Number: 				N/A	-							
3a. (R649-3-1) The NEW operator of any state/fe	e well	(s) liste	d cove		- umber	22013542						
3b. The FORMER operator has requested a release				_	N/A		•					
		~ **				-						
LEASE INTEREST OWNER NOTIFIC					1 2	a stri						
4. (R649-2-10) The NEW operator of the fee wells					-	om the Division						
of their responsibility to notify all interest owner	s of t	nis chan	ige on:		4/11/2013							
COMMENTS:												

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING See Wells 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SUNDRY NOTICES AND REPORTS ON WELLS 7. UNIT or CA AGREEMENT NAME: Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 8. WELL NAME and NUMBER: 1. TYPE OF WELL OTHER CBM Wells GAS WELL OIL WELL 9. API NUMBER: 2. NAME OF OPERATOR: See Wells Anadarko Petroleum Corporation 10. FIELD AND POOL, OR WILDCAT: PHONE NUMBER: 3. ADDRESS OF OPERATOR: (720) 929-6000 STATE CO 710 80217 P.O. Box 173779 Denver 4. LOCATION OF WELL FOOTAGES AT SURFACE: STATE: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: UTAH CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION REPERFORATE CURRENT FORMATION ACIDIZE DEEPEN NOTICE OF INTENT SIDETRACK TO REPAIR WELL FRACTURE TREAT (Submit in Duplicate) ALTER CASING TEMPORARILY ABANDON NEW CONSTRUCTION Approximate date work will start: CASING REPAIR TUBING REPAIR CHANGE TO PREVIOUS PLANS OPERATOR CHANGE 4/8/2013 VENT OR FLARE PLUG AND ABANDON CHANGE TUBING SUBSEQUENT REPORT WATER DISPOSAL PLUG BACK CHANGE WELL NAME (Submit Original Form Only) WATER SHUT-OFF PRODUCTION (START/RESUME) CHANGE WELL STATUS Date of work completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE OTHER: RECOMPLETE - DIFFERENT FORMATION CONVERT WELL TYPE 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator is requesting authorization to transfer the wells from Anadarko Petroleum Corporation and Anadarko Production Company to Anadarko E&P Onshore, LLC. Please see the attached list of 181 wells that are currently filed under Anadarko Petroleum Corporation and Anadarko Production Company. The state/fee wells will be under bond number 22013542, and the KEULIVED federal wells will be under bond number WYB000291. Effective 4/1/13 APR 0 9 2013 Please contact the undersigned if there are any questions. DIV OF OIL GAS & MININ Jaime Scharnowske Jaime Scharnowske Regulatory Analyst Regulatory Analyst Anadarko E&P Onshore, LLC N 3940 NO035 Anadarko Petroleum Corporation P.O. Box 173779 P.O. Box 173779 Denver, CO 80214 Denver, CO 80214 (720) 929-6000 (720) 929-6000 Regulatory Analyst Jaime Scharnowske NAME (PLEASE PRINT) DATE 4/8/2013 SIGNATURE

(This space for State u

APR 1 1 2013

DIV. OIL GAS & MINING Rachel Modina (See Instructions on Reverse Side)

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940) Effective 1- April-2013

						Lease	Well	Well
Well Name	Sec	Twnshp	Range	API	Entity No.	Type	Type	status
HELPER ST SWD 1	03	140S	100E	4300730361	12258	State	WD	Α
FED F-2 SWD	08	140S	100E	4300730555	12557	Federal	WD	Α
CLAWSON SPRING ST SWD 4	13	160S	080E	4301530477	12979	State	WD	Α
CLAWSON SPRING ST SWD 1	36	150S	080E	4300730721	12832	State	WD	I
HELPER FED B-1	33	130S	100E	4300730189	11537	Federal	GW	P
HELPER FED A-1	23	130S	100E	4300730190	11517	Federal	GW	P
HELPER FED A-3	22	130S	100E	4300730213	11700	Federal	GW	P
HELPER FED C-1	22	130S	100E	4300730214	11702	Federal	GW	P
HELPER FED B-5	27	130S	100E	4300730215	11701	Federal	GW	P
HELPER FED A-2	22	130S	100E	4300730216	11699	Federal	GW	P
HELPER FED D-1	26	130S	100E	4300730286	12061	Federal	GW	P
BIRCH A-1	05	140S	100E	4300730348	12120	Fee	GW	P
HELPER ST A-1	03	140S	100E	4300730349	12122	State	GW	P
HELPER ST D-7	04	140S	100E	4300730350	12121	State	GW	P
CHUBBUCK A-1	31	130S	100E	4300730352	12397	Fee	GW	P
VEA A-1	32	130S	100E	4300730353	12381	Fee	GW	P
VEA A-2	32	130S	100E	4300730354	12483	Fee	GW	P
VEA A-3	32	130S	100E	4300730355	12398	Fee	GW	P
VEA A-4	32	130S	100E	4300730356	12482	Fee	GW	P
HELPER ST A-8	02	140S	100E	4300730357	12257	State	GW	P
HELPER ST A-3	02	140S	100E	4300730358	12254	State	GW	P
HELPER ST A-4	02	140S	100E	4300730359	12255	State	GW	P
HELPER ST A-7	02	140S	100E	4300730360	12256	State	GW	P
HELPER ST A-2	03	140S	100E	4300730362	12232	State	GW	P
HELPER ST A-5	03	140S	100E	4300730363	12231	State	GW	P
HELPER ST A-6	03	140S	100E	4300730364	12233	State	GW	P
HELPER ST D-4	04	140S	100E	4300730365	12228	State	GW	P
HELPER ST D-3	05	140S	100E	4300730366	12184	State	GW	P
HELPER ST D-5	04	140S	100E	4300730367	12226	State	GW	P
HELPER ST D-8	04	140S	100E	4300730368		State	GW	P
HELPER ST D-2	05	140S	100E	4300730369		State	GW	P
HELPER ST D-6	05	140S	100E	4300730370		State	GW	P
HELPER ST D-1	06	140S	100E	4300730371	12399	State	GW	P
BIRCH A-2	08	140S	100E	4300730372	12189	Fee	GW	P
HELPER ST A-9	10	140S	100E	4300730373	12230	State	GW	P
HELPER ST B-1	09	140S	100E	4300730376	12227	State	GW	P
HELPER FED F-3	08	140S	100E	4300730378	12252	Federal	GW	P
HELPER FED F-4	09	140S	100E	4300730379		Federal	GW	P
HELPER ST A-10	10	140S	100E	4300730433	12488	State	GW	P
HELPER ST A-10 HELPER ST A-11	11	140S	100E	4300730434		State	GW	P
HELPER ST A-11 HELPER ST A-12	10	140S	100E	4300730434		State	GW	P
HELPER ST A-12 HELPER ST A-13	10	140S	100E	4300730435		State	GW	P
	09	140S	100E	4300730430		State	GW	P
HELPER ST B-2 HELPER FED E-7	19	130S	100E	4300730437		Federal	GW	P
	33	130S	100E	4300730530		Federal	GW	P
HELPER FED B-2	33	130S 130S	100E 100E	4300730530	12619	Federal	GW	P
HELPER FED B-4	33	130S 130S	100E 100E	4300730531		Federal	GW	P
HELPER FED B-4		130S 130S	100E 100E	4300730532		Federal	GW	P
HELPER FED B-6	27		100E 100E	4300730533		Federal	GW	P
HELPER FED B-7	27	130S					GW	P
HELPER FED B-8	27	130S	100E	4300730535	12631	Federal	G W	I.

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940) Effective1-April-2013

Near							Lease	Well	Well
HELPER FED B-9	Well Name	Sec	Twnshp	Range	API	Entity No.			
HELPER FED B-10								GW	P
HELPER FED B-11					4300730537	12626	Federal	GW	P
HELPER FED B-12					4300730538	12628	Federal	GW	P
HELPER FED B-13						12627	Federal	GW	P
HELPER FED B-14						12621	Federal	GW	P
HELPER FED D-2				100E	4300730541	12620	Federal	GW	P
HELPER FED D-3					4300730542	12650	Federal	GW	P
HELPER FED D-4		26	130S	100E	4300730543	12634	Federal	GW	P
HELPER FED D-5					4300730544	12625	Federal	GW	P
HELPER FED D-6		35	130S	100E	4300730545	12637	Federal	GW	P
HELPER FED E-1		35	130S	100E	4300730546	12635	Federal	GW	P
HELPER FED H-2		29	130S	100E	4300730547	13246	Federal	GW	P
HELPER FED H-1		29	130S	100E	4300730548	12636	Federal	GW	P
HELPER FED H-2		01	140S	100E	4300730549	12653	Federal	GW	P
OLIVETO FED A-2		01	140S	100E	4300730550	12647	Federal	GW	P
HELPER FED F-1		08	140S	100E	4300730556	12630	Federal	GW	P
SMITH FED A-1 09 140S 100E		08	140S	100E	4300730557	12629	Federal	GW	P
SE INVESTMENTS A-1		09	140S	100E	4300730558	13004	Federal	GW	P
HELPER ST A-14		06	140S	100E	4300730570	12624	Fee	GW	P
HELPER ST A-15 HELPER ST E-1 36 130S 100E 4300730572 12613 State GW P HELPER ST E-1 36 130S 100E 4300730573 12615 State GW P HELPER ST E-2 36 130S 100E 4300730574 12616 Fee GW P HARMOND A-1 07 140S 100E 4300730586 12616 Fee GW P HELPER ST E-3 36 130S 100E 4300730586 12616 Fee GW P HELPER ST E-3 36 130S 100E 4300730592 12868 State GW P HELPER FED A-6 23 130S 100E 4300730593 12649 Federal GW P HELPER FED D-7 26 130S 100E 4300730594 12651 Federal GW P HELPER FED D-8 35 130S 100E 4300730595 12652 Federal GW P HELPER ST E-4 36 130S 100E 4300730595 12652 Federal GW P HELPER ST E-4 36 130S 100E 4300730595 12652 Federal GW P HELPER ST E-4 36 130S 100E 4300730597 12618 State GW P HELPER ST A-16 11 140S 100E 4300730604 12648 Fee GW P CLAWSON SPRING ST A-2 36 150S 080E 4300730604 12648 Fee GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730605 12856 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST D-5 31 150S 080E 4300730636 13001 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730644 12849 State GW P CLAWSON SPRING ST D-6 31 150S 090E 4300730643 12847 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730644 12849 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730643 12847 State GW P HELPER FED A-7 HELPER FED A-7 22 130S 100E 4300730679 13015 Federal GW P HELPER FED A-5 HELPER FED A-7 22 130S 100E 4300730679 13015 Federal GW P HELPER FED C-2 24 130S 100E 4300730680 13203 Federal GW P HELPER FED C-4 24 130S 100E 4300730680 13203 Federal GW P HELPER FED C-7 21 130S 100E 4300730685 13245 Federal GW P HELPER FED C-7 21 130S 100E 4300730687 13015 Federal GW P HELPER FED D-10 25 130S 100E 4300730687 12844 State GW P HELPER FED D-10 25 130S 100E 4300730687 13010 Federal GW P HELPER FED D-10 25 130S 100E 4300730687 13015 Federal GW P HELPER FED D-10 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-10 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-10 4300730688 13005 Federal GW P HELPER FED D-10 4300730688 13005 Federal GW P HELPER FED D-10 4300730688 13005 Federal GW P H				100E	4300730571	12612	State	GW	P
HELPER ST E-1 36 130S 100E 4300730573 12615 State GW P HELPER ST E-2 36 130S 100E 4300730574 12614 State GW P HARMOND A-1 07 140S 100E 4300730586 12616 Fee GW P HELPER ST E-3 36 130S 100E 4300730592 12868 State GW P HELPER FED A-6 23 130S 100E 4300730593 12649 Federal GW P HELPER FED D-7 26 130S 100E 4300730594 12651 Federal GW P HELPER FED D-8 35 130S 100E 4300730595 12652 Federal GW P CLAWSON SPRING ST A-1 36 150S 080E 4300730597 12618 State GW P HELPER ST E-4 36 130S 100E 4300730597 12618 State GW P HELPER ST A-16 11 140S 100E 4300730598 12825 State GW P CLAWSON SPRING ST A-2 36 150S 080E 4300730603 12638 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730603 12638 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730603 12638 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730603 12846 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730636 13001 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730641 12849 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730644 12849 State GW P CLAWSON SPRING ST D-6 31 150S 090E 4300730644 12849 State GW P HELPER FED A-5 23 130S 100E 4300730678 13346 Federal GW P HELPER FED A-5 23 130S 100E 4300730678 13346 Federal GW P HELPER FED B-15 28 130S 100E 4300730680 13203 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730681 13016 Federal GW P HELPER FED D-10 25 130S 100E 4300730688 13295 Federal GW P HELPER FED D-10 25 130S 100E 4300730688 12992 Federal GW P HELPER FED D-10 25 130S 100E 4300730688 13005 Federal GW P HELPER FED D-10 25 130S 100E 4300730688 13005 Federal GW P		11		100E	4300730572	12613	State	GW	P
HELPER ST E-2 36 130S 100E				100E	4300730573	12615	State	GW	P
HARMOND A-1 07 140S 100E 4300730586 12616 Fee GW P HELPER ST E-3 36 130S 100E 4300730592 12868 State GW P HELPER FED A-6 23 130S 100E 4300730593 12649 Federal GW P HELPER FED D-7 26 130S 100E 4300730594 12651 Federal GW P HELPER FED D-8 35 130S 100E 4300730595 12652 Federal GW P HELPER ST E-D D-8 35 130S 100E 4300730595 12652 Federal GW P HELPER ST E-4 36 130S 100E 4300730597 12618 State GW P HELPER ST A-16 11 140S 100E 4300730598 12825 State GW P CHUBBUCK A-2 06 140S 100E 4300730603 12638 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730603 12638 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST A-4 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST A-5 31 150S 080E 4300730637 12844 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-6 31 150S 090E 4300730641 12849 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730641 12849 State GW P HELPER FED A-7 22 130S 100E 4300730677 13010 Federal GW P HELPER FED B-15 28 130S 100E 4300730679 13015 Federal GW P HELPER FED B-16 28 130S 100E 4300730681 13203 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-2 24 130S 100E 4300730684 13203 Federal GW P HELPER FED C-2 24 130S 100E 4300730684 13204 Federal GW P HELPER FED C-7 21 130S 100E 4300730686 13203 Federal GW P HELPER FED D-9 25 130S 100E 4300730686 12993 Federal GW P HELPER FED D-10 25 130S 100E 4300730686 12993 Federal GW P HELPER FED D-10 25 130S 100E 4300730688 13005 Federal GW P HELPER FED D-10 25 130S 100E 4300730688 13005 Federal GW P					4300730574	12614	State	GW	P
HELPER ST E-3 36 130S 100E 4300730592 12868 State GW P HELPER FED A-6 HELPER FED D-7 26 130S 100E 4300730593 12649 Federal GW P HELPER FED D-7 26 130S 100E 4300730594 12651 Federal GW P HELPER FED D-8 35 130S 100E 4300730595 12652 Federal GW P HELPER ST B-4 36 150S 080E 4300730595 12652 Federal GW P HELPER ST E-4 36 130S 100E 4300730598 12825 State GW P HELPER ST A-16 11 140S 100E 4300730603 12638 State GW P HELPER ST A-16 11 140S 100E 4300730604 12648 Fee GW P CLAWSON SPRING ST A-2 36 150S 080E 4300730604 12648 Fee GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730631 12844 State GW P CLAWSON SPRING ST A-4 36 150S 080E 4300730631 12844 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-6 31 150S 090E 4300730641 12849 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730644 12849 State GW P HELPER FED A-5 430S 100E 4300730677 13010 Federal GW P HELPER FED A-7 HELPER FED B-15 28 130S 100E 4300730677 13010 Federal GW P HELPER FED B-16 28 130S 100E 4300730680 13203 Federal GW P HELPER FED C-2 4 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730681 13016 Federal GW P HELPER FED D-9 25 130S 100E 4300730681 13016 Federal GW P HELPER FED D-10 25 130S 100E 4300730681 13203 Federal GW P HELPER FED D-10 4300730688 13205 Federal GW P HELPER FED D-10 4400730688 13205 Federal GW P HELPER FED D-10 4500730688 13205 Federal GW P HELPER FED D-10 4500730688 13205 Federal GW P HELPER FED D-10 4500730688 13205 Federal GW P					4300730586	12616	Fee	GW	P
HELPER FED A-6 HELPER FED D-7 HELPER FED D-7 LAWSON SPRING ST A-1 HELPER ST A-16 CLAWSON SPRING ST A-2 CLAWSON SPRING ST A-2 CLAWSON SPRING ST A-3 B 150S B 100E B 4300730597 B 12652 B 76deral B 70W P HELPER ST E-4 B 100E B 1100E B 4300730597 B 12618 B 5tate B 70W P HELPER ST E-4 B 100E B 1100E B 14300730597 B 12618 B 5tate B 70W		36		100E	4300730592	12868	State	GW	P
HELPER FED D-7 HELPER FED D-8 35 130S 100E 4300730594 12651 Federal GW P HELPER FED D-8 35 130S 100E 4300730595 12652 Federal GW P HELPER ST D-8 CLAWSON SPRING ST A-1 36 150S 080E 4300730597 12618 State GW P HELPER ST E-4 36 130S 100E 4300730598 12825 State GW P HELPER ST A-16 11 140S 100E 4300730603 12638 State GW P CHUBBUCK A-2 06 140S 100E 4300730604 12648 Fee GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730636 13001 State GW P CLAWSON SPRING ST D-5 31 150S 080E 4300730637 12844 State GW P CLAWSON SPRING ST D-6 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-6 31 150S 090E 4300730643 12847 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730644 12849 State GW P HELPER FED A-5 HELPER FED A-7 22 130S 100E 4300730677 13010 Federal GW P HELPER FED B-16 48 HELPER FED B-16 28 130S 100E 4300730681 13016 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730685 13245 Federal GW P HELPER FED D-10 25 130S 100E 4300730687 12840 FED P FED				100E	4300730593	12649	Federal	GW	P
HELPER FED D-8 35 130S 100E 4300730595 12652 Federal GW P		26	130S	100E	4300730594	12651	Federal	GW	P
CLAWSON SPRING ST A-1 36 150S 080E 4300730597 12618 State GW P HELPER ST E-4 36 130S 100E 4300730598 12825 State GW P HELPER ST A-16 11 140S 100E 4300730603 12638 State GW P CHUBBUCK A-2 06 140S 100E 4300730604 12648 Fee GW P CLAWSON SPRING ST A-2 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730637 12844 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-6 31 150S 090E 4300730641 12847 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730641 12849 State		35	130S	100E	4300730595	12652	Federal	GW	P
HELPER ST E-4 HELPER ST A-16 HELPER ST A-16 CHUBBUCK A-2 O6 140S 100E 4300730603 12638 State GW P CHUBBUCK A-2 O6 140S 100E 4300730604 12648 Fee GW P CLAWSON SPRING ST A-2 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST A-4 36 150S 080E 4300730636 13001 State GW P CLAWSON SPRING ST A-4 36 150S 080E 4300730637 12844 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-6 31 150S 090E 4300730643 12847 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730644 12849 State GW P HELPER FED A-7 HELPER FED A-7 HELPER FED B-15 28 130S 100E 4300730677 13010 Federal GW P HELPER FED B-16 28 130S 100E 4300730680 13203 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730685 13245 Federal GW P HELPER FED D-10 25 130S 100E 4300730687 13292 Federal GW P HELPER FED D-11 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-12 P HELPER FED D-12		36	150S	080E	4300730597	12618	State	GW	P
HELPER ST A-16 CHUBBUCK A-2 06 140S 100E 4300730603 12638 State GW P CLAWSON SPRING ST A-2 36 150S 080E 4300730604 12648 Fee GW P CLAWSON SPRING ST A-2 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730636 13001 State GW P CLAWSON SPRING ST A-4 36 150S 080E 4300730637 12844 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-6 31 150S 090E 4300730643 12847 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730644 12849 State GW P HELPER FED A-5 23 130S 100E 4300730677 13010 Federal GW P HELPER FED B-15 28 130S 100E 4300730678 13346 Federal GW P HELPER FED B-16 28 130S 100E 4300730680 13203 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730682 13012 Federal GW P HELPER FED C-7 21 130S 100E 4300730684 13204 Federal GW P HELPER FED D-9 25 130S 100E 4300730685 13245 Federal GW P HELPER FED D-10 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-11 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-11 25 130S 100E 4300730688 1300S Federal GW P HELPER FED D-11 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-10 P HELPER FED D-11 25 130S 100E 4300730688 1300S Federal GW P HELPER FED D-10 P HELPER FED D-10 P HELPER FED D-10 P HELPER FED D-11 P HELPER FED D-11		36	130S	100E	4300730598	12825	State	GW	P
CHUBBUCK A-2 06 140S 100E 4300730604 12648 Fee GW P CLAWSON SPRING ST A-2 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730636 13001 State GW P CLAWSON SPRING ST A-4 36 150S 080E 4300730636 13001 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730637 12844 State GW P CLAWSON SPRING ST D-6 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730643 12847 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730644 12849 State GW P HELPER FED A-5 23 130S 100E 4300730677 13010 Federal GW P HELPER FED B-15 28 130S 100E 4300730678 13346 Federal GW P HELPER FED B-16 28 130S 100E 4300730679 13015 Federal GW P HELPER FED C-2 24 130S 100E 4300730680 13203 Federal GW P HELPER FED C-4 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730681 13012 Federal GW P HELPER FED D-9 25 130S 100E 4300730685 13245 Federal GW P HELPER FED D-10 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-10 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-11 25 130S 100E 4300730688 13005 Federal GW P HELPER FED D-12 25 130S 100E 4300730688 13005 Federal GW P		11	140S	100E	4300730603	12638	State	GW	P
CLAWSON SPRING ST A-2 36 150S 080E 4300730635 12856 State GW P CLAWSON SPRING ST A-3 36 150S 080E 4300730636 13001 State GW P CLAWSON SPRING ST A-4 36 150S 080E 4300730637 12844 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-6 31 150S 090E 4300730643 12847 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730644 12849 State GW P HELPER FED A-5 23 130S 100E 4300730677 13010 Federal GW P HELPER FED B-15 28 130S 100E 4300730679 13015 Federal GW P HELPER FED C-2 24 130S 100E 4300730680 13203 Feder		06	140S	100E	4300730604	12648	Fee	GW	P
CLAWSON SPRING ST A-4 36 150S 080E 4300730637 12844 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-6 31 150S 090E 4300730643 12847 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730644 12849 State GW P HELPER FED A-5 23 130S 100E 4300730677 13010 Federal GW P HELPER FED A-7 22 130S 100E 4300730678 13346 Federal GW P HELPER FED B-15 28 130S 100E 4300730679 13015 Federal GW P HELPER FED B-16 28 130S 100E 4300730680 13203 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal		36	150S	080E	4300730635	12856	State	GW	P
CLAWSON SPRING ST A-4 36 150S 080E 4300730637 12844 State GW P CLAWSON SPRING ST D-5 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-6 31 150S 090E 4300730643 12847 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730644 12849 State GW P HELPER FED A-5 23 130S 100E 4300730677 13010 Federal GW P HELPER FED A-7 22 130S 100E 4300730678 13346 Federal GW P HELPER FED B-16 28 130S 100E 4300730680 13203 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730684 13204 Federal	CLAWSON SPRING ST A-3	36	150S	080E	4300730636	13001	State	GW	P
CLAWSON SPRING ST D-5 31 150S 090E 4300730642 12852 State GW P CLAWSON SPRING ST D-6 31 150S 090E 4300730643 12847 State GW P CLAWSON SPRING ST D-7 31 150S 090E 4300730644 12849 State GW P HELPER FED A-5 23 130S 100E 4300730677 13010 Federal GW P HELPER FED A-7 22 130S 100E 4300730678 13346 Federal GW P HELPER FED B-15 28 130S 100E 4300730679 13015 Federal GW P HELPER FED B-16 28 130S 100E 4300730680 13203 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730684 13204 Federal		36	150S	080E	4300730637	12844	State	GW	P
CLAWSON SPRING ST D-7 31 150S 090E 4300730644 12849 State GW P HELPER FED A-5 23 130S 100E 4300730677 13010 Federal GW P HELPER FED A-7 22 130S 100E 4300730678 13346 Federal GW P HELPER FED B-15 28 130S 100E 4300730679 13015 Federal GW P HELPER FED B-16 28 130S 100E 4300730680 13203 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730682 13012 Federal GW P HELPER FED D-9 25 130S 100E 4300730685 13245 Federal GW P HELPER FED D-10 25 130S 100E 4300730687 12992 Federal GW<	CLAWSON SPRING ST D-5	31	150S	090E	4300730642	12852	State	GW	P
CLAWSON SPRING ST D-7 31 150S 090E 4300730644 12849 State GW P HELPER FED A-5 23 130S 100E 4300730677 13010 Federal GW P HELPER FED A-7 22 130S 100E 4300730678 13346 Federal GW P HELPER FED B-15 28 130S 100E 4300730679 13015 Federal GW P HELPER FED B-16 28 130S 100E 4300730680 13203 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-7 21 130S 100E 4300730684 13204 Federal GW P HELPER FED D-9 25 130S 100E 4300730685 13245 Federal GW P HELPER FED D-10 25 130S 100E 4300730686 12993 Federal GW<	CLAWSON SPRING ST D-6	31	150S	090E	4300730643	12847	State	GW	P
HELPER FED A-7 HELPER FED B-15 100E HELPER FED B-15 100E HELPER FED B-16 100E HELPER FED C-2 100E HELPER FED C-4 HELPER FED C-4 HELPER FED C-7 1130S 100E HELPER FED B-16 130S 100E HELPER FED B-16 130S 100E HELPER FED B-16 HELPER FED B	CLAWSON SPRING ST D-7	31	150S	090E	4300730644	12849	State	GW	P
HELPER FED B-15 28 130S 100E 4300730679 13015 Federal GW P HELPER FED B-16 28 130S 100E 4300730680 13203 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-4 24 130S 100E 4300730682 13012 Federal GW P HELPER FED C-7 21 130S 100E 4300730684 13204 Federal GW P HELPER FED D-9 25 130S 100E 4300730685 13245 Federal GW P HELPER FED D-10 25 130S 100E 4300730686 12993 Federal GW P HELPER FED D-11 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-12 25 130S 100E 4300730688 13005 Federal GW P	HELPER FED A-5	23	130S	100E	4300730677	13010	Federal	GW	
HELPER FED B-16 28 130S 100E 4300730680 13203 Federal GW P HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-4 24 130S 100E 4300730682 13012 Federal GW P HELPER FED C-7 21 130S 100E 4300730684 13204 Federal GW P HELPER FED D-9 25 130S 100E 4300730685 13245 Federal GW P HELPER FED D-10 25 130S 100E 4300730686 12993 Federal GW P HELPER FED D-11 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-12 25 130S 100E 4300730688 13005 Federal GW P	HELPER FED A-7	22	130S	100E	4300730678	13346	Federal	GW	P
HELPER FED C-2 24 130S 100E 4300730681 13016 Federal GW P HELPER FED C-4 424 130S 100E 4300730682 13012 Federal GW P HELPER FED C-7 4300730684 13204 Federal GW P HELPER FED D-9 4300730685 13245 Federal GW P HELPER FED D-10 4300730686 12993 Federal GW P HELPER FED D-11 4300730687 12992 Federal GW P HELPER FED D-12 4300730688 13005 Federal GW P HELPER FED D-12 4300730688 13005 Federal GW P	HELPER FED B-15	28	130S	100E	4300730679	13015	Federal	GW	P
HELPER FED C-4 24 130S 100E 4300730682 13012 Federal GW P HELPER FED C-7 21 130S 100E 4300730684 13204 Federal GW P HELPER FED D-9 25 130S 100E 4300730685 13245 Federal GW P HELPER FED D-10 25 130S 100E 4300730686 12993 Federal GW P HELPER FED D-11 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-12 25 130S 100E 4300730688 13005 Federal GW P	HELPER FED B-16	28	130S	100E	4300730680	13203	Federal	GW	P
HELPER FED C-7 21 130S 100E 4300730684 13204 Federal GW P HELPER FED D-9 25 130S 100E 4300730685 13245 Federal GW P HELPER FED D-10 25 130S 100E 4300730686 12993 Federal GW P HELPER FED D-11 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-12 25 130S 100E 4300730688 13005 Federal GW P	HELPER FED C-2	24	130S	100E	4300730681	13016	Federal	GW	
HELPER FED C-7 21 130S 100E 4300730684 13204 Federal GW P HELPER FED D-9 25 130S 100E 4300730685 13245 Federal GW P HELPER FED D-10 25 130S 100E 4300730686 12993 Federal GW P HELPER FED D-11 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-12 25 130S 100E 4300730688 13005 Federal GW P		24	130S	100E	4300730682	13012	Federal		
HELPER FED D-9 25 130S 100E 4300730685 13245 Federal GW P HELPER FED D-10 25 130S 100E 4300730686 12993 Federal GW P HELPER FED D-11 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-12 25 130S 100E 4300730688 13005 Federal GW P		21	130S	100E	4300730684	13204	Federal	GW	
HELPER FED D-10 25 130S 100E 4300730686 12993 Federal GW P HELPER FED D-11 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-12 25 130S 100E 4300730688 13005 Federal GW P			130S	100E	4300730685	13245	Federal	GW	
HELPER FED D-11 25 130S 100E 4300730687 12992 Federal GW P HELPER FED D-12 25 130S 100E 4300730688 13005 Federal GW P					4300730686	12993	Federal	GW	
HELPER FED D-12 25 130S 100E 4300730688 13005 Federal GW P				100E	4300730687	12992	Federal	GW	P
					4300730688	13005	Federal	GW	P
	HELPER FED E-4	29	130S	100E	4300730689	13229	Federal	GW	P

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940) Effective 1-April-2013

						Lease	Well	Well
Well Name	Sec	Twnshp	Range	API	Entity No.	Type	Type	status
HELPER FED A-4	23	130S	100E	4300730692	13009	Federal	GW	P
HELPER FED C-5	24	130S	100E	4300730693	13013	Federal	GW	P
HELPER FED G-1	30	130S	11 0 E	4300730694	13006	Federal	GW	P
HELPER FED G-2	30	130S	110E	4300730695	13007	Federal	GW	P
HELPER FED G-3	31	130S	11 0 E	4300730696	13002	Federal	GW	P
HELPER FED G-4	31	130S	110E	4300730697	13003	Federal	GW	P
HELPER FED H-3	01	140S	100E	4300730698	12831	Federal	GW	P
HELPER FED H-4	01	140S	100E	4300730699	12833	Federal	GW	P
CLAWSON SPRING ST D-8	31	150S	090E	4300730701	12851	State	GW	P
HELPER FED C-3	24	130S	100E	4300730702	13011	Federal	GW	P
CLAWSON SPRING ST J-1	35	150S	080E	4300730726	13299	Fee	GW	P
PIERUCCI 1	35	150S	080E	4300730727	13325	Fee	GW	P
POTTER ETAL 1	35	150S	080E	4300730728	12958	Fee	GW	P
POTTER ETAL 2	35	150S	080E	4300730737	12959	Fee	GW	P
HELPER FED G-5	30	130S	110E	4300730770	13655	Federal	GW	P
HELPER FED G-6	30	130S	110E	4300730771	13656	Federal	GW	P
HELPER FED G-7	31	130S	110E	4300730772	13657	Federal	GW	P
HELPER FED G-8	31	130S	110E	4300730773	13658	Federal	GW	P
GOODALL A-1	06	140S	110E	4300730774	13348	Fee	GW	P
HELPER FED E-8	19	130S	100E	4300730776	13624	Federal	GW	P
HAUSKNECHT A-1	21	130S	100E	4300730781	13347	Fee	GW	P
HELPER FED E-9	19	130S	100E	4300730868	13628	Federal	GW	P
HELPER FED E-5	20	130S	100E	4300730869	13625	Federal	GW	P
HELPER FED E-6	20	130S	100E	4300730870	13631	Federal	GW	P
HELPER FED E-10	30	130S	100E	4300730871	13629	Federal	GW	P
SACCOMANNO A-1	30	130S	100E	4300730872	13622	Fee	GW	P
HELPER FED E-11	30	130S	100E	4300730873	13630	Federal	GW	P
BLACKHAWK A-2	29	130S	100E	4300730886	13783	Fee	GW	P
BLACKHAWK A-3	20	130S	100E	4300730914	13794	Fee	GW	P
BLACKHAWK A-4	21	130S	100E	4300730915	13795	Fee	GW	P
BLACKHAWK A-1X	20	130S	100E	4300730923	13798	Fee	GW	P
HELPER STATE 12-3	03	140S	100E	4300750070	17824	State	GW	P
HELPER STATE 32-3	03	140S	100E	4300750071	17827	State	GW	P
HELPER STATE 32-36	36	130S	100E	4300750072	17825	State	GW	P
VEA 32-32	32	130S	100E	4300750075	17826	Fee	GW	P
CLAWSON SPRING ST E-7	07	160S	090E	4301530392	12960	State	GW	P
CLAWSON SPRING ST E-8	07	160S	090E	4301530394	12964	State	GW	P
CLAWSON SPRING ST E-3	06	160S	090E	4301530403	12965	State	GW	P
CLAWSON SPRING ST E-1	06	160S	090E	4301530404	12966	State	GW	P
CLAWSON SPRING ST E-2	06	160S	090E	4301530405	12961	State	GW	P
CLAWSON SPRING ST E-4	06	160S	090E	4301530406	12962	State	GW	P
CLAWSON SPRING ST C-1	12	160S	080E	4301530410	12617	State	GW	P
CLAWSON SPRING ST B-1	01	160S	080E	4301530427	12845	State	GW	P
CLAWSON SPRING ST B-2	01	160S	080E	4301530428	12846	State	GW	P
CLAWSON SPRING ST B-3	01	160S	080E	4301530429		State	GW	P
CLAWSON SPRING ST B-4	01	160S	080E	4301530430		State	GW	P
CLAWSON SPRING ST B-5	12	160S	080E	4301530431	12963	State	GW	P
CLAWSON SPRING ST B-8	11	160S	080E	4301530432		State	GW	P
CLAWSON SPRING ST B-9	11	160S	080E	4301530433		State	GW	P
CLAWSON SPRING ST C-2	12	160S	080E	4301530434	12850	State	GW	P

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940) Effective1-April-2013

Name							Lease	Well	Well
CLAWSON SPRING ST B-7 11 Ioos 80BE 4301530460 12967 State GW P CLAWSON SPRING ST C-6 14 160S 080E 4301530461 13355 State GW P CLAWSON SPRING ST C-3 12 160S 080E 4301530463 12968 State GW P CLAWSON SPRING ST B-6 11 160S 080E 4301530466 13323 State GW P CLAWSON SPRING ST IP-2 13 160S 080E 4301530466 13233 State GW P CLAWSON SPRING ST IP-2 13 160S 080E 4301530467 12955 State GW P CLAWSON SPRING ST IP-2 15 160S 080E 4301530467 12957 State GW P CLAWSON SPRING ST IP-2 15 160S 080E 4301530472 12200 Fee GW P CLAWSON SPRING ST F-1 03 160S 080E 4301530472 132182 <th>Well Name</th> <th>Sec</th> <th>Twnshp</th> <th>Range</th> <th>API</th> <th>Entity No.</th> <th>Type</th> <th>Type</th> <th>status</th>	Well Name	Sec	Twnshp	Range	API	Entity No.	Type	Type	status
CLAWSON SPRING ST C-6 14 160S 080E 4301530461 13355 State GW P CLAWSON SPRING ST C-3 12 160S 080E 4301530463 12968 State GW P CLAWSON SPRING ST B-6 11 160S 080E 4301530465 12969 State GW P CLAWSON SPRING ST H-1 13 160S 080E 4301530467 12955 State GW P CLAWSON SPRING ST IPA-1 10 160S 080E 4301530468 12956 Fee GW P CLAWSON SPRING ST IPA-2 15 160S 080E 4301530469 13200 Fee GW P CLAWSON SPRING ST E-5 07 160S 090E 4301530470 12971 State GW P CLAWSON SPRING ST F-2 03 160S 080E 4301530471 13014 State GW P CLAWSON SPRING ST F-1 03 160S 080E 4301530473 1322S	CLAWSON SPRING ST C-4	14	160S	080E	4301530435	13199	State	GW	
CLAWSON SPRING ST C-3 12 160S 080E 4301530463 12968 State GW P CLAWSON SPRING ST B-6 11 160S 080E 4301530465 12969 State GW P CLAWSON SPRING ST H-1 13 160S 080E 4301530466 12955 State GW P CLAWSON SPRING ST IPA-1 10 160S 080E 4301530467 12955 State GW P CLAWSON SPRING ST IPA-2 15 160S 080E 4301530468 12956 Fee GW P CLAWSON SPRING ST IPA-2 15 160S 090E 4301530470 13200 Fee GW P CLAWSON SPRING ST G-1 02 160S 080E 4301530471 13014 State GW P CLAWSON SPRING ST F-2 03 160S 080E 4301530472 13228 State GW P CLAWSON SPRING ST G-2 02 160S 080E 4301530473 13052	CLAWSON SPRING ST B-7	11	160S	080E	4301530460	12967	State	GW	
CLAWSON SPRING ST B-6 11 160S 080E 4301530465 12969 State GW P CLAWSON SPRING ST H-1 13 160S 080E 4301530467 12955 State GW P CLAWSON SPRING ST IPA-1 10 160S 080E 4301530467 12955 State GW P CLAWSON SPRING ST IPA-2 15 160S 080E 4301530468 12956 Fee GW P CLAWSON SPRING ST IPA-2 15 160S 080E 4301530469 13200 Fee GW P CLAWSON SPRING ST IPA-2 15 160S 080E 4301530470 12971 State GW P CLAWSON SPRING ST G-1 02 160S 080E 4301530471 13014 State GW P CLAWSON SPRING ST F-2 03 160S 080E 4301530473 13278 State GW P CLAWSON SPRING ST G-2 02 160S 080E 4301530472 12957 <td>CLAWSON SPRING ST C-6</td> <td>14</td> <td>160S</td> <td>080E</td> <td>4301530461</td> <td>13355</td> <td>State</td> <td></td> <td></td>	CLAWSON SPRING ST C-6	14	160S	080E	4301530461	13355	State		
CLAWSON SPRING ST H-1 13 160S 080E 4301530466 13323 State GW P CLAWSON SPRING ST H-2 13 160S 080E 4301530467 12955 State GW P CLAWSON SPRING ST IPA-1 10 160S 080E 4301530467 12955 State GW P CLAWSON SPRING ST IPA-2 15 160S 080E 4301530469 13200 Fee GW P CLAWSON SPRING ST IPA-2 15 160S 080E 4301530470 12971 State GW P CLAWSON SPRING ST E-5 07 160S 090E 4301530470 12971 State GW P CLAWSON SPRING ST E-1 02 160S 080E 4301530471 13014 State GW P CLAWSON SPRING ST F-2 03 160S 080E 4301530472 13282 State GW P CLAWSON SPRING ST F-1 03 160S 080E 4301530472 13282 State GW P CLAWSON SPRING ST F-1 03 160S 080E 4301530473 13278 State GW P CLAWSON SPRING ST E-6 07 160S 090E 4301530474 13052 State GW P CLAWSON SPRING ST G-2 02 160S 080E 4301530474 13052 State GW P CLAWSON SPRING ST G-2 02 160S 080E 4301530475 12957 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530475 12957 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530488 13201 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530489 13202 State GW P SHIMMIN TRUST 3 14 120S 100E 4300730119 11096 Fee GW PA SHIMMIN TRUST 1 11 120S 100E 4300730120 11096 Fee GW PA SHIMMIN TRUST 2 14 120S 100E 4300730121 11096 Fee GW PA SHIMMIN TRUST 4 11 120S 100E 4300730121 11096 Fee GW PA SHIMMIN TRUST 4 11 120S 100E 4300730122 11096 Fee GW PA ST 9-16 16 120S 100E 4300730132 11402 State GW PA ST 9-16 16 120S 100E 4300730132 11402 State GW PA ST 9-16 16 16 120S 100E 4300730133 11399 State GW PA SLEMAKER A-1 120S 100E 4300730161 11403 Fee GW PA SLEMAKER A-1 10 120S 100E 4300730168 11441 Fee GW PA SLEMAKER A-1 120S 100E 4300730168 11441 Fee GW PA SLEMAKER A-1 120S 100E 4300730168 11440 Fee GW PA SLEMAKER A-1 11 120S 100E 4300730168 11440 Fee GW PA SLEMAKER A-1 11 120S 100E 4300730168 11407 Fee GW PA SLEMAKER A-1 11 120S 100E 4300730168 11407 Fee GW PA SLEMAKER A-1 11 120S 100E 4300730168 11407 Fee GW PA SLEMAKER A-1 11 120S 100E 4300730168 11407 Fee GW PA SLEMAKER A-1 11 120S 100E 4300730168 11407 Fee GW PA SLEMAKER A-1 11 120S 100E 4300730168 11407 Fee GW PA SLEMAKER A-1 11 120S 100E 4	CLAWSON SPRING ST C-3	12	160S	080E	4301530463	12968	State	GW	
CLAWSON SPRING ST H-2 13 160S 080E 4301530467 12955 State GW P CLAWSON SPRING ST IPA-1 10 160S 080E 4301530468 12956 Fee GW P CLAWSON SPRING ST IPA-2 15 160S 080E 4301530469 13200 Fee GW P CLAWSON SPRING ST E-5 07 160S 090E 4301530470 12971 State GW P CLAWSON SPRING ST G-1 02 160S 080E 4301530471 13014 State GW P CLAWSON SPRING ST F-2 03 160S 080E 4301530472 13282 State GW P CLAWSON SPRING ST F-1 03 160S 080E 4301530472 13282 State GW P CLAWSON SPRING ST F-1 03 160S 080E 4301530473 13278 State GW P CLAWSON SPRING ST F-6 07 160S 090E 4301530473 13278 State GW P CLAWSON SPRING ST G-1 02 160S 080E 4301530474 13052 State GW P CLAWSON SPRING ST G-2 02 160S 080E 4301530475 12957 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530488 13201 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530488 13201 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530489 13202 State GW P SHIMMIN TRUST 3 14 120S 100E 4300730119 11096 Fee GW PA SHIMMIN TRUST 1 11 120S 100E 4300730120 11096 Fee GW PA SHIMMIN TRUST 1 11 120S 100E 4300730121 11096 Fee GW PA SHIMMIN TRUST 4 11 120S 100E 4300730123 11096 Fee GW PA ST 9-16 16 120S 100E 4300730132 11402 State GW PA ST 9-16 16 120S 100E 4300730132 11402 State GW PA ST 9-16 16 120S 100E 4300730133 11399 State GW PA ST 9-16 16 120S 100E 4300730131 11096 Fee GW PA ST 9-16 16 120S 100E 4300730131 11096 Fee GW PA ST 9-16 16 120S 100E 4300730131 11096 Fee GW PA ST 9-16 16 120S 100E 4300730131 11096 Fee GW PA ST 9-16 16 120S 100E 4300730163 11402 State GW PA ST 9-16 16 120S 100E 4300730163 11407 Fee GW PA SLEMAKER A-1 05 120S 120E 4300730165 11407 Fee GW PA SLEMAKER A-1 10 120S 100E 4300730168 11410 Fee GW PA SLEMSEN 16-10 10 120S 100E 4300730168 11410 Fee GW PA SLEMSEN 11-15 15 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 1-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 1-12 12 120S 100E 4300730188 11503 Fee GW PA SHIMMIN TRUST 1-1 11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1	CLAWSON SPRING ST B-6	11	160S	080E	4301530465	12969	State		
CLAWSON SPRING ST IPA-1 10 160S 080E 4301530468 12956 Fee GW P CLAWSON SPRING ST IPA-2 15 160S 080E 4301530469 13200 Fee GW P CLAWSON SPRING ST E-5 07 160S 090E 4301530470 12971 State GW P CLAWSON SPRING ST G-1 02 160S 080E 4301530471 13014 State GW P CLAWSON SPRING ST F-2 03 160S 080E 4301530471 13014 State GW P CLAWSON SPRING ST F-1 03 160S 080E 4301530473 13282 State GW P CLAWSON SPRING ST F-1 03 160S 080E 4301530473 13278 State GW P CLAWSON SPRING ST G-2 02 160S 080E 4301530474 13052 State GW P CLAWSON SPRING ST G-2 02 160S 080E 4301530474 13052 State GW P CLAWSON SPRING ST M-1 02 160S 080E 4301530475 12957 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530488 13201 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530488 13201 State GW P SHIMMIN TRUST 3 14 120S 100E 4300730119 11096 Fee GW PA SHIMMIN TRUST 1 11 120S 100E 4300730120 11096 Fee GW PA SHIMMIN TRUST 2 14 120S 100E 4300730121 11096 Fee GW PA SHIMMIN TRUST 4 11 120S 100E 4300730123 11096 Fee GW PA SHIMMIN TRUST 4 11 120S 100E 4300730133 11399 State GW PA ST 9-16 16 120S 100E 4300730133 11399 State GW PA ST 9-16 16 16 120S 100E 4300730131 11402 State GW PA ST 9-16 16 120S 100E 4300730133 11399 State GW PA ST 9-16 16 16 120S 100E 4300730133 11399 State GW PA ST 9-16 16 120S 100E 4300730133 11399 State GW PA ST 9-16 10 120S 100E 4300730165 11407 Fee GW PA SLEMAKER A-1 14 120S 100E 4300730165 11407 Fee GW PA SLEMAKER A-1 15 15 120S 100E 4300730165 11407 Fee GW PA SLEMAKER A-1 11 120S 100E 4300730165 11407 Fee GW PA SLEMAKER A-1 11 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN T	CLAWSON SPRING ST H-1	13	160S	080E	4301530466	13323	State	GW	
CLAWSON SPRING ST IPA-2 15 160S 080E 4301530469 13200 Fee GW P CLAWSON SPRING ST E-5 07 160S 090E 4301530470 12971 State GW P CLAWSON SPRING ST G-1 02 160S 080E 4301530471 13014 State GW P CLAWSON SPRING ST G-1 03 160S 080E 4301530471 13014 State GW P CLAWSON SPRING ST F-2 03 160S 080E 4301530472 13282 State GW P CLAWSON SPRING ST F-1 03 160S 080E 4301530473 13278 State GW P CLAWSON SPRING ST E-6 07 160S 090E 4301530473 13278 State GW P CLAWSON SPRING ST G-2 02 160S 080E 4301530474 13052 State GW P CLAWSON SPRING ST G-2 02 160S 080E 4301530475 12957 State GW P CLAWSON SPRING ST M-1 02 160S 080E 4301530478 13052 State GW P CLAWSON SPRING ST M-1 02 160S 080E 4301530488 13201 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530488 13201 State GW P SHIMMIN TRUST 3 14 120S 100E 4300730119 11096 Fee GW P A SHIMMIN TRUST 1 11 120S 100E 4300730112 11096 Fee GW P A SHIMMIN TRUST 1 11 120S 100E 4300730120 11096 Fee GW P A SHIMMIN TRUST 4 11 120S 100E 4300730121 11096 Fee GW P A ST 9-16 16 120S 100E 4300730132 11096 Fee GW P A ST 9-16 16 120S 100E 4300730132 11096 Fee GW P A ST 2-16 16 120S 100E 4300730132 11096 Fee GW P A ST 2-16 16 120S 100E 4300730131 11399 State GW P A ST 2-16 16 120S 100E 4300730131 11096 Fee GW P A ST 2-16 16 120S 100E 4300730131 11273 State GW P A ST 2-16 16 120S 100E 4300730131 11273 State GW P A ST 2-16 16 120S 100E 4300730131 11273 State GW P A ST 2-16 16 120S 100E 4300730161 11402 State GW P A ST 2-16 10 10 120S 100E 4300730161 11403 Fee GW P A ST 2-16 10 10 120S 100E 4300730161 11403 Fee GW P A ST 2-16 10 10 120S 100E 4300730165 11407 Fee GW P A SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW P A SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW P A SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW P A SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW P A SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW P A SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW P A SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW P A SHIMMIN TRUST 12-12 12 120S	CLAWSON SPRING ST H-2	13	160S	080E	4301530467	12955	State		
CLAWSON SPRING ST E-5 07 160S 090E 4301530470 12971 State GW P CLAWSON SPRING ST G-1 02 160S 080E 4301530471 13014 State GW P CLAWSON SPRING ST F-2 03 160S 080E 4301530472 13282 State GW P CLAWSON SPRING ST F-1 03 160S 080E 4301530473 13278 State GW P CLAWSON SPRING ST E-6 07 160S 090E 4301530474 13052 State GW P CLAWSON SPRING ST G-2 02 160S 080E 4301530475 12957 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530488 13201 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530489 13202 State GW P SHIMMIN TRUST 3 14 120S 100E 4300730119 11096	CLAWSON SPRING ST IPA-1	10	160S	080E	4301530468	12956	Fee		
CLAWSON SPRING ST G-1 02 160S 080E 4301530471 13014 State GW P CLAWSON SPRING ST F-2 03 160S 080E 4301530472 13282 State GW P CLAWSON SPRING ST F-1 03 160S 080E 4301530473 13278 State GW P CLAWSON SPRING ST E-6 07 160S 090E 4301530474 13052 State GW P CLAWSON SPRING ST G-2 02 160S 080E 4301530474 13052 State GW P CLAWSON SPRING ST G-2 02 160S 080E 4301530475 12957 State GW P CLAWSON SPRING ST M-1 02 160S 080E 4301530488 13201 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530488 13201 State GW P SHIMMIN TRUST 3 14 120S 100E 4300730119 11096 Fee GW PA SHIMMIN TRUST 1 11 120S 100E 4300730120 11096 Fee GW PA SHIMMIN TRUST 2 14 120S 100E 4300730121 11096 Fee GW PA SHIMMIN TRUST 4 11 120S 100E 4300730123 11096 Fee GW PA ST 9-16 16 120S 100E 4300730132 11096 Fee GW PA ST 2-16 16 120S 100E 4300730132 11096 Fee GW PA ST 2-16 16 120S 100E 4300730133 11399 State GW PA ST 2-16 16 120S 100E 4300730141 11273 State GW PA SLEMAKER A-1 14 120S 090E 4300730141 11273 State GW PA SLEMAKER A-1 15 120S 100E 4300730165 11407 Fee GW PA SLEMAKER A-1 10 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 130S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 13	CLAWSON SPRING ST IPA-2	15	160S	080 E	4301530469	13200	Fee		
CLAWSON SPRING ST F-2 03 160S 080E 4301530472 13282 State GW P CLAWSON SPRING ST F-1 03 160S 080E 4301530473 13278 State GW P CLAWSON SPRING ST E-6 07 160S 090E 4301530474 13052 State GW P CLAWSON SPRING ST G-2 02 160S 080E 4301530475 12957 State GW P CLAWSON SPRING ST M-1 02 160S 080E 4301530475 12957 State GW P CLAWSON SPRING ST M-1 02 160S 080E 4301530488 13201 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530488 13201 State GW P CLAWSON SPRING ST K-1 11 120S 100E 4300730119 11096 Fee GW PA SHIMMIN TRUST 1 11 120S 100E 4300730120 11096 Fee GW PA SHIMMIN TRUST 1 11 120S 100E 4300730121 11096 Fee GW PA SHIMMIN TRUST 2 14 120S 100E 4300730123 11096 Fee GW PA ST 9-16 16 120S 100E 4300730123 11096 Fee GW PA ST 9-16 16 120S 100E 4300730132 11402 State GW PA ST 2-16 16 120S 100E 4300730132 11402 State GW PA ST 2-16 16 120S 100E 4300730133 11399 State GW PA ST 2-16 16 120S 100E 4300730131 11273 State GW PA ST 2-16 16 120S 100E 4300730161 11402 Fee GW PA ST 2-16 16 120S 100E 4300730161 11407 Fee GW PA SLEMAKER A-1 05 120S 120E 4300730161 11403 Fee GW PA JENSEN 16-10 10 120S 100E 4300730161 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11503 Fee GW PA BRYNER A-1 11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1 11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1 11 120S 120E 4300730185 13798 Fee D PA BLACKHAWK A-5H 20 130S 100E 4300731402 17029 Fee D PA	CLAWSON SPRING ST E-5	07	160S	090E	4301530470	12971	State	GW	P
CLAWSON SPRING ST F-1 03 160S 080E 4301530473 13278 State GW P CLAWSON SPRING ST E-6 07 160S 090E 4301530474 13052 State GW P CLAWSON SPRING ST G-2 02 160S 080E 4301530475 12957 State GW P CLAWSON SPRING ST M-1 02 160S 080E 4301530488 13201 State GW P CLAWSON SPRING ST M-1 02 160S 080E 4301530488 13201 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530488 13202 State GW P SHIMMIN TRUST 3 14 120S 100E 4300730119 11096 Fee GW PA SHIMMIN TRUST 1 11 120S 100E 4300730120 11096 Fee GW PA SHIMMIN TRUST 2 14 120S 100E 4300730121 11096 Fee GW PA SHIMMIN TRUST 4 11 120S 100E 4300730123 11096 Fee GW PA ST 9-16 16 120S 100E 4300730132 11402 State GW PA ST 9-16 16 120S 100E 4300730132 11402 State GW PA ST 2-16 16 120S 100E 4300730133 11399 State GW PA ST 2-16 16 120S 100E 4300730133 11399 State GW PA ST 2-16 16 120S 100E 4300730141 11273 State GW PA ST 2-16 10 10 120S 100E 4300730161 11403 Fee GW PA SIEMAKER A-1 105 120S 100E 4300730161 11403 Fee GW PA SIEMAKER A-1 15 120S 100E 4300730165 11407 Fee GW PA SIEMAKER A-1 15 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 120S 100E 43	CLAWSON SPRING ST G-1	02	160S	080E	4301530471	13014	State		
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CLAWSON SPRING ST G-2 02 160S 080E 4301530475 12957 State GW P CLAWSON SPRING ST M-1 02 160S 080E 4301530488 13201 State GW P CLAWSON SPRING ST K-1 02 160S 080E 4301530488 13202 State GW P SHIMMIN TRUST 3 14 120S 100E 4300730119 11096 Fee GW PA SHIMMIN TRUST 1 11 120S 100E 4300730120 11096 Fee GW PA SHIMMIN TRUST 2 14 120S 100E 4300730121 11096 Fee GW PA SHIMMIN TRUST 4 11 120S 100E 4300730123 11096 Fee GW PA SHIMMIN TRUST 4 11 120S 100E 4300730123 11096 Fee GW PA ST 9-16 16 120S 100E 4300730132 11402 State GW PA ST 9-16 16 120S 100E 4300730132 11402 State GW PA ST 2-16 16 120S 100E 4300730133 11399 State GW PA MATTS SUMMIT ST A-1 14 120S 090E 4300730141 11273 State GW PA SLEMAKER A-1 05 120S 120E 4300730158 11441 Fee GW PA JENSEN 16-10 10 120S 100E 4300730161 11403 Fee GW PA JENSEN 7-15 15 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730175 11425 Fee GW PA BRYNER A-1 11 120S 120E 4300730175 11425 Fee GW PA BRYNER A-1 (11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1 (11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1 (11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1X (RIG SKID) 11 120S 120E 4300730209 11503 Fee GW PA BLACKHAWK A-5H 20 130S 100E 4300730885 13798 Fee D PA BLACKHAWK A-5H 20 130S 100E 4300731402 17029 Fee D PA	CLAWSON SPRING ST F-1	03	160S	080E	4301530473	13278	State		
CLAWSON SPRING ST M-1	CLAWSON SPRING ST E-6	07	160S	090E	4301530474	13052	State		
CLAWSON SPRING ST K-1 O2 160S O80E 4301530489 13202 State GW P SHIMMIN TRUST 3 14 120S 100E 4300730119 11096 Fee GW PA SHIMMIN TRUST 1 11 120S 100E 4300730120 11096 Fee GW PA SHIMMIN TRUST 2 14 120S 100E 4300730121 11096 Fee GW PA SHIMMIN TRUST 4 11 120S 100E 4300730121 11096 Fee GW PA SHIMMIN TRUST 4 11 120S 100E 4300730123 11096 Fee GW PA ST 9-16 16 120S 100E 4300730132 11402 State GW PA ST 2-16 16 120S 100E 4300730133 11399 State GW PA MATTS SUMMIT ST A-1 14 120S 090E 4300730141 11273 State GW PA SLEMAKER A-1 05 120S 120E 4300730158 11441 Fee GW PA JENSEN 16-10 10 120S 100E 4300730161 11403 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA BRYNER A-1 11 120S 120E 4300730175 11425 Fee GW PA BRYNER A-1 11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1X (RIG SKID) 11 120S 120E 4300730885 13798 Fee D PA BLACKHAWK A-5H 20 130S 100E 4300731402 17029 Fee D PA	CLAWSON SPRING ST G-2	02	160S	080E	4301530475	12957	State		
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SHIMMIN TRUST 4 11 120S 100E 4300730123 11096 Fee GW PA ST 9-16 16 120S 100E 4300730132 11402 State GW PA ST 2-16 16 120S 100E 4300730133 11399 State GW PA MATTS SUMMIT ST A-1 14 120S 090E 4300730141 11273 State GW PA SLEMAKER A-1 05 120S 120E 4300730158 11441 Fee GW PA JENSEN 16-10 10 120S 100E 4300730161 11403 Fee GW PA JENSEN 7-15 15 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA JENSEN 11-15 15 120S 100E 4300730175 11425 Fee GW PA <tr< td=""><td>SHIMMIN TRUST 1</td><td>11</td><td>120S</td><td>100E</td><td>4300730120</td><td>11096</td><td>Fee</td><td></td><td></td></tr<>	SHIMMIN TRUST 1	11	120S	100E	4300730120	11096	Fee		
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ST 2-16 16 120S 100E 4300730133 11399 State GW PA MATTS SUMMIT ST A-1 14 120S 090E 4300730141 11273 State GW PA SLEMAKER A-1 05 120S 120E 4300730158 11441 Fee GW PA JENSEN 16-10 10 120S 100E 4300730161 11403 Fee GW PA JENSEN 7-15 15 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA JENSEN 11-15 15 120S 100E 4300730175 11425 Fee GW PA BRYNER A-1 11 120S 120E 4300730188 11503 Fee GW PA BLACKHAWK A-1 20 130S 100E 4300730885 13798 Fee D PA	SHIMMIN TRUST 4	11	120S	100E	4300730123	11096	Fee		
MATTS SUMMIT ST A-1 14 120S 090E 4300730141 11273 State GW PA SLEMAKER A-1 05 120S 120E 4300730158 11441 Fee GW PA JENSEN 16-10 10 120S 100E 4300730161 11403 Fee GW PA JENSEN 7-15 15 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA JENSEN 11-15 15 120S 100E 4300730175 11425 Fee GW PA BRYNER A-1 11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1X (RIG SKID) 11 120S 120E 4300730209 11503 Fee GW PA BLACKHAWK A-1 20 130S 100E 4300731402 17029 Fee D PA </td <td>ST 9-16</td> <td>16</td> <td>120S</td> <td>100E</td> <td>4300730132</td> <td>11402</td> <td>State</td> <td></td> <td></td>	ST 9-16	16	120S	100E	4300730132	11402	State		
SLEMAKER A-1 05 120S 120E 4300730158 11441 Fee GW PA JENSEN 16-10 10 120S 100E 4300730161 11403 Fee GW PA JENSEN 7-15 15 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA JENSEN 11-15 15 120S 100E 4300730175 11425 Fee GW PA BRYNER A-1 11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1X (RIG SKID) 11 120S 120E 4300730209 11503 Fee GW PA BLACKHAWK A-1 20 130S 100E 4300731402 17029 Fee D PA BLACKHAWK A-5H 20 130S 100E 4300731402 17029 Fee D PA <td>ST 2-16</td> <td>16</td> <td>120S</td> <td>100E</td> <td>4300730133</td> <td>11399</td> <td>State</td> <td></td> <td></td>	ST 2-16	16	120S	100E	4300730133	11399	State		
JENSEN 16-10 10 120S 100E 4300730161 11403 Fee GW PA JENSEN 7-15 15 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA JENSEN 11-15 15 120S 100E 4300730175 11425 Fee GW PA BRYNER A-1 11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1X (RIG SKID) 11 120S 120E 4300730209 11503 Fee GW PA BLACKHAWK A-1 20 130S 100E 4300730885 13798 Fee D PA BLACKHAWK A-5H 20 130S 100E 4300731402 17029 Fee D PA	MATTS SUMMIT ST A-1	14	120S	090E	4300730141				
JENSEN 7-15 15 120S 100E 4300730165 11407 Fee GW PA SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA JENSEN 11-15 15 120S 100E 4300730175 11425 Fee GW PA BRYNER A-1 11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1X (RIG SKID) 11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1X (RIG SKID) 11 120S 120E 4300730209 11503 Fee GW PA BLACKHAWK A-1 20 130S 100E 4300730885 13798 Fee D PA BLACKHAWK A-5H 20 130S 100E 4300731402 17029 Fee D PA	SLEMAKER A-1	05	120S	120E	4300730158	11441	Fee		
SHIMMIN TRUST 12-12 12 120S 100E 4300730168 11420 Fee GW PA JENSEN 11-15 15 120S 100E 4300730175 11425 Fee GW PA BRYNER A-1 11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1X (RIG SKID) 11 120S 120E 4300730209 11503 Fee GW PA BLACKHAWK A-1 20 130S 100E 4300730885 13798 Fee D PA BLACKHAWK A-5H 20 130S 100E 4300731402 17029 Fee D PA	JENSEN 16-10	10	120S	100E	4300730161				
JENSEN 11-15 15 120S 100E 4300730175 11425 Fee GW PA BRYNER A-1 11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1X (RIG SKID) 11 120S 120E 4300730209 11503 Fee GW PA BLACKHAWK A-1 20 130S 100E 4300730885 13798 Fee D PA BLACKHAWK A-5H 20 130S 100E 4300731402 17029 Fee D PA	JENSEN 7-15	15	120S	100E	4300730165				
BRYNER A-1 BRYNER A-1 BRYNER A-1X (RIG SKID) 11 120S 120E 4300730188 11503 Fee GW PA BRYNER A-1X (RIG SKID) 11 120S 120E 4300730209 11503 Fee GW PA BLACKHAWK A-1 20 130S 100E 4300730885 13798 Fee D PA BLACKHAWK A-5H 20 130S 100E 4300731402 17029 Fee D PA	SHIMMIN TRUST 12-12	12	120S	100E	4300730168				
BRYNER A-1X (RIG SKID) 11 120S 120E 4300730209 11503 Fee GW PA BLACKHAWK A-1 20 130S 100E 4300730885 13798 Fee D PA BLACKHAWK A-5H 20 130S 100E 4300731402 17029 Fee D PA	JENSEN 11-15	15	120S	100E	4300730175				
BLACKHAWK A-1 20 130S 100E 4300730885 13798 Fee D PA BLACKHAWK A-5H 20 130S 100E 4300731402 17029 Fee D PA	BRYNER A-1	11	120S	120E	4300730188	11503	Fee		
BLACKHAWK A-5H 20 130S 100E 4300731402 17029 Fee D PA	BRYNER A-1X (RIG SKID)	11	120S	120E	4300730209	11503	Fee		
DEMOCRATIC TO THE PARTY OF THE	BLACKHAWK A-1	20	130S	100E	4300730885				
CLAWSON SPRING ST SWD 3 06 160S 090E 4301530476 12978 State D PA	BLACKHAWK A-5H	20	130S		4300731402				
	CLAWSON SPRING ST SWD 3	06	160S	090E	4301530476		State	D	PA
HELPER FED C-6 21 130S 100E 4300730683 13008 Federal GW S	HELPER FED C-6	21	130S	100E					
UTAH 10-415 10 160S 080E 4301530391 12632 State GW TA	UTAH 10-415	10	160S	080E	4301530391	12632	State	GW	TA

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
1	4300730189	HELPER FED B-1	NESW	33	135	10E	Federal	USA UTU 71392	Producing
2	4300730190	HELPER FED A-1	C-SW	23	135	10E	Federal	USA UTU 58434	Producing
3	4300730213	HELPER FED A-3	SESE	22	135	10E	Federal	USA UTU 58434	Producing
4	4300730214	HELPER FED C-1	SENE	22	135	10E	Federal	USA UTU 71391	Producing
5	4300730215	HELPER FED B-5	NENE	27	135	10E	Federal	USA UTU 71392	Producing
6	4300730216	HELPER FED A-2	NESW	22	135	10E	Federal	USA UTU 58434	Producing
7	4300730286	HELPER FED D-1	SWNE	26	135	10E	Federal	USA UTU 68315	Producing
8	4300730378	HELPER FED F-3	NENE	8	145	10E	Federal	USA UTU 65762	Producing
9	4300730379	HELPER FED F-4	NWNW	9	14S	10E	Federal	USA UTU 65762	Producing
10	4300730508	HELPER FED E-7	SESE	19	135	10E	Federal	USA UTU 77980	Producing
11	4300730530	HELPER FED B-2	SENW	33	135	10E	Federal	USA UTU 71392	Producing
12	4300730531	HELPER FED B-3	NESE	33	135	10E	Federal	USA UTU 71392	Producing
13	4300730532	HELPER FED B-4	NENE	33	135	10E	Federal	USA UTU 71392	Producing
14	4300730533	HELPER FED B-6	NENW	27	135	10E	Federal	USA UTU 71392	Producing
15	4300730534	HELPER FED B-7	NESW	27	135	10E	Federal	USA UTU 71392	Producing
16	4300730535	HELPER FED B-8	SESE	27	135	10E	Federal	USA UTU 71392	Producing
17	4300730536	HELPER FED B-9	SENW	34	135	10E	Federal	USA UTU 71392	Producing
18	4300730537	HELPER FED B-10	NWNE	34	135	10E	Federal	USA UTU 71392	Producing
19	4300730538	HELPER FED B-11	SESW	34	135	10E	Federal	USA UTU 71392	Producing
20	4300730539	HELPER FED B-12	NESE	34	135	10E	Federal	USA UTU 71392	Producing
21	4300730540	HELPER FED B-13	SWSE	28	135	10E	Federal	USA UTU 71392	Producing
22	4300730541	HELPER FED B-14	SWSW	28	135	10E	Federal	USA UTU 71392	Producing
23	4300730542	HELPER FED D-2	SWNW	26	135	10E	Federal	USA UTU 68315	Producing
24	4300730543	HELPER FED D-3	SESW	26	135	10E	Federal	USA UTU 68315	Producing
25	4300730544	HELPER FED D-4	NWNW	35	135	10E	Federal	USA UTU 68315	Producing
26	4300730545	HELPER FED D-5	SESW	35	135	10E	Federal	USA UTU 68315	Producing
27	4300730546	HELPER FED D-6	NWSE	35	135	10E	Federal	USA UTU 68315	Producing
28	4300730547	HELPER FED E-1	NESE	29	135	10E	Federal	USA UTU 71675	Producing
29	4300730548	HELPER FED E-2	SESW	29	135	10E	Federal	USA UTU 71675	Producing
30	4300730549	HELPER FED H-1	NENW	1	145	10E	Federal	USA UTU 72352	Producing
31	4300730550	HELPER FED H-2	SESW	1	145	10E	Federal	USA UTU 72352	Producing
32	4300730556	OLIVETO FED A-2	NESW	8	14S	10E	Federal	USA UTU 65762	Producing
33	4300730557	HELPER FED F-1	SESE	8	145	10E	Federal	USA UTU 65762	Producing
34	4300730558	SMITH FED A-1	NWSW	9	14S	10E	Federal	USA UTU 65762	Producing
35	4300730593	HELPER FED A-6	SESE	23	13 S	10E	Federal	USA UTU 58434	Producing
36	4300730594	HELPER FED D-7	C-SE	26	135	10E	Federal	USA UTU 68315	Producing
37	4300730595	HELPER FED D-8	NENE	35	135	10E	Federal	USA UTU 68315	Producing
38	4300730677	HELPER FED A-5	NENE	23	13S	10E	Federal	USA UTU 58434	Producing
39	4300730678	HELPER FED A-7	SENW	22	135	10E	Federal	USA UTU 58434	Producing
40	4300730679	HELPER FED B-15	SENE	28	135	10E	Federal	USA UTU 71392	Producing
41	4300730680	HELPER FED B-16	SWNW	28	135	10E	Federal	USA UTU 71392	Producing
42	4300730681	HELPER FED C-2	NENW	24	13S	10E	Federal	USA UTU 71391	Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
43	4300730682	HELPER FED C-4	NWSW	24	135	10E	Federal	USA UTU 71391	Producing
44	4300730683	HELPER FED C-6	SWSE	21	13S	10E	Federal	USA UTU 71391	Shut-In
45	4300730684	HELPER FED C-7	SESW	21	135	10E	Federal	USA UTU 71391	Producing
46	4300730685	HELPER FED D-9	NWNW	25	135	10E	Federal	USA UTU 68315	Producing
47	4300730686	HELPER FED D-10	SENE	25	13S	10E	Federal	USA UTU 68315	Producing
48	4300730687	HELPER FED D-11	SESW	25	135	10E	Federal	USA UTU 68315	Producing
49	4300730688	HELPER FED D-12	SESE	25	135	10E	Federal	USA UTU 68315	Producing
50	4300730689	HELPER FED E-4	NWNE	29	135	10E	Federal	USA UTU 71675	Producing
51	4300730692	HELPER FED A-4	SWNW	23	135	10E	Federal	USA UTU 58434	Producing
52	4300730693	HELPER FED C-5	SWNE	24	135	10E	Federal	USA UTU 71391	Producing
53	4300730694	HELPER FED G-1	C-NW	30	135	11E	Federal	USA UTU 71677	Producing
54	4300730695	HELPER FED G-2	swsw	30	135	11E	Federal	USA UTU 71677	Producing
55	4300730696	HELPER FED G-3	SENW	31	135	11E	Federal	USA UTU 71677	Producing
56	4300730697	HELPER FED G-4	SESW	31	135	11E	Federal	USA UTU 71677	Producing
57	4300730698	HELPER FED H-3	SWNE	1	145	10E	Federal	USA UTU 72352	Producing
58	4300730699	HELPER FED H-4	NESE	1	14S	10E	Federal	USA UTU 72352	Producing
59	4300730702	HELPER FED C-3	SESW	24	135	10E	Federal	USA UTU 71391	Producing
60	4300730770	HELPER FED G-5	SWNE	30	135	11E	Federal	USA UTU 71677	Producing
61	4300730771	HELPER FED G-6	SWSE	30	135	11E	Federal	USA UTU 71677	Producing
62	4300730772	HELPER FED G-7	NWNE	31	135	11E	Federal	USA UTU 71677	Producing
63	4300730773	HELPER FED G-8	NESE	31	135	11E	Federal	USA UTU 71677	Producing
64	4300730776	HELPER FED E-8	SENE	19	135	10E	Federal	USA UTU 77980	Producing
65	4300730868	HELPER FED E-9	SESW	19	135	10E	Federal	USA UTU 77980	Producing
66	4300730869	HELPER FED E-5	swsw	20	135	10E	Federal	USA UTU 71675	Producing
67	4300730870	HELPER FED E-6	SWNW	20	135	10E	Federal	USA UTU 71675	Producing
68	4300730871	HELPER FED E-10	NENW	30	135	10E	Federal	USA UTU 71675	Producing
69	4300730873	HELPER FED E-11	NWNE	30	135	10E	Federal	USA UTU 71675	Producing
70	4300730119	SHIMMIN TRUST 3	SENW	14	125	10E	Fee (Private)		Plugged and Abandoned
71	4300730120	SHIMMIN TRUST 1	SESE	11	125	10E	Fee (Private)		Plugged and Abandoned
72	4300730121	SHIMMIN TRUST 2	SENE	14	125	10E	Fee (Private)		Plugged and Abandoned
73	4300730123	SHIMMIN TRUST 4	SESW	11	12S	10E	Fee (Private)		Plugged and Abandoned
74	4300730158	SLEMAKER A-1	SWNE	5	12S	12E	Fee (Private)		Plugged and Abandoned
75	4300730161	JENSEN 16-10	SESE	10	12S	10E	Fee (Private)		Plugged and Abandoned
76	4300730165	JENSEN 7-15	SWNE	15	12S	10E	Fee (Private)		Plugged and Abandoned
77	4300730168	SHIMMIN TRUST 12-12	NWSW	12	12S	10E	Fee (Private)		Plugged and Abandoned
78	4300730175	JENSEN 11-15	NESW	15	125	10E	Fee (Private)		Plugged and Abandoned
79	4300730188	BRYNER A-1	NESE	11	12S	12E	Fee (Private)		Plugged and Abandoned
80	4300730209	BRYNER A-1X (RIG SKID)	NESE	11	12S	12E	Fee (Private)		Plugged and Abandoned
81	4300730348	BIRCH A-1	NWSW	5	14S	10E	Fee (Private)		Producing
82	4300730352	CHUBBUCK A-1	NESE	31	13S	10E	Fee (Private)		Producing
83	4300730353	VEA A-1	SWNW	32	135	10E	Fee (Private)		Producing
84	4300730354	VEA A-2	NENE	32	13S	10E	Fee (Private)		Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
85	4300730355	VEA A-3	SESW	32	13 S	10E	Fee (Private)		Producing
86	4300730356	VEA A-4	NWSE	32	13S	10E	Fee (Private)		Producing
87	4300730372	BIRCH A-2	NWNW	8	145	10E	Fee (Private)		Producing
88	4300730570	SE INVESTMENTS A-1	NESE	6	145	10E	Fee (Private)		Producing
89	<u> </u>	HARMOND A-1	SENE	7	145	10E	Fee (Private)		Producing
90	4300730604	CHUBBUCK A-2	SENW	6	14S	10E	Fee (Private)		Producing
91	4300730726	CLAWSON SPRING ST J-1	SESW	35	15\$	8E	Fee (Private)		Producing
92	4300730727	PIERUCCI 1	SENW	35	158	8E	Fee (Private)		Producing
93	4300730728	POTTER ETAL 1	SWNE	35	15\$	8E	Fee (Private)		Producing
94	4300730737	POTTER ETAL 2	NESE	35	158	8E	Fee (Private)		Producing
95	4300730774	GOODALL A-1	NWSW	6	145	11E	Fee (Private)		Producing
96	4300730781	HAUSKNECHT A-1	SWNW	21	135	10E	Fee (Private)		Producing
97	4300730872	SACCOMANNO A-1	NESE	30	135	10E	Fee (Private)		Producing
98	4300730885	BLACKHAWK A-1	SESE	20	135	10E	Fee (Private)		Plugged and Abandoned
99	4300730886	BLACKHAWK A-2	NWNW	29	135	10E	Fee (Private)		Producing
100	4300730914	BLACKHAWK A-3	SENE	20	13S	10E	Fee (Private)		Producing
101	4300730915	BLACKHAWK A-4	NENE	21	135	10E	Fee (Private)		Producing
102	4300730923	BLACKHAWK A-1X	SESE	20	135	10E	Fee (Private)		Producing
103	4300731402	BLACKHAWK A-5H	NENE	20	135	10E	Fee (Private)		Plugged and Abandoned
104	4300750075	VEA 32-32	SWNE	32	135	10E	Fee (Private)		Producing
105	4301530468	CLAWSON SPRING ST IPA-1	SESE	10	165	8E	Fee (Private)		Producing
106	4301530469	CLAWSON SPRING ST IPA-2	NENE	15	16S	8E	Fee (Private)		Producing
107	4300730132	ST 9-16	NESE	16	12S	10E	State	ML-44443	Plugged and Abandoned
108	4300730133	ST 2-16	NWNE	16	125	10E	State	ML-44443	Plugged and Abandoned
109	4300730141	MATTS SUMMIT ST A-1	NWNW	14	125	9E	State	ML-44496	Plugged and Abandoned
110	4300730349	HELPER ST A-1	SENW	3	145	10E	State	ST UT ML 45805	Producing
111	4300730350	HELPER ST D-7	NWSW	4	145	10E	State	ST UT ML 45804	Producing
112	4300730357	HELPER ST A-8	NWSE	2	145	10E	State	ST UT ML 45805	Producing
113	4300730358	HELPER ST A-3	NWNW	2	145	10E	State	ST UT ML 45805	Producing
114	4300730359	HELPER ST A-4	NWNE	2	145	10E	State	ST UT ML 45805	Producing
115	4300730360	HELPER ST A-7	NESW	2	14S	10E	State	ST UT ML 45805	Producing
116	4300730362	HELPER ST A-2	NENE	3	145	10E	State	ST UT ML 45805	Producing
117	4300730363	HELPER ST A-5	NESW	3	145	10E	State	ST UT ML 45805	Producing
118	4300730364	HELPER ST A-6	NESE	3	14S	10E	State	ST UT ML 45805	Producing
119	4300730365	HELPER ST D-4	SWNW	4	145	10E	State	ST UT ML 45804	Producing
120	4300730366	HELPER ST D-3	NENE	5	145	10E	State	ST UT ML 45804	Producing
121	4300730367	HELPER ST D-5	NWNE	4	145	10E	State	ST UT ML 45804	Producing
122	4300730368	HELPER ST D-8	SESE	4	145	10E	State	ST UT ML 45804	Producing
123	4300730369	HELPER ST D-2	NENW	5	145	10E	State	ST UT ML 45804	Producing
124	4300730370	HELPER ST D-6	SESE	5	145	10E	State	ST UT ML 45804	Producing
125	4300730371	HELPER ST D-1	NENE	6	14S	10E	State	ST UT ML 45804	Producing
126	4300730373	HELPER ST A-9	SENW	10	14S	10E	State	ST UT ML 45805	Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
127	4300730376	HELPER ST B-1	SWNE	9	145	10E	State	ST UT ML 47556	Producing
128	4300730433	HELPER ST A-10	NWNE	10	14 S	10E	State	ST UT ML 45805	Producing
129	4300730434	HELPER ST A-11	SWNW	11	145	10E	State	ST UT ML 45805	Producing
130	4300730435	HELPER ST A-12	NWSW	10	14S	10E	State	ST UT ML 45805	Producing
131	4300730436	HELPER ST A-13	NESE	10	145	10E	State	ST UT ML 45805	Producing
132	4300730437	HELPER ST B-2	NESE	9	14S	10E	State	ST UT ML 47556	Producing
133	4300730571	HELPER ST A-14	SESW	11	145	10E	State	ST UT ML 45805	Producing
134	4300730572	HELPER ST A-15	SENE	11	145	10E	State	ST UT ML 45805	Producing
135	4300730573	HELPER ST E-1	SESW	36	13S	10E	State	ST UT ML 45802	Producing
136	4300730574	HELPER ST E-2	SWNW	36	135	10E	State	ST UT ML 45802	Producing
137	4300730592	HELPER ST E-3	NENE	36	135	10E	State	ST UT ML 45802	Producing
138	4300730597	CLAWSON SPRING ST A-1	SWSE	36	158	8E	State	ST UT ML 46106	Producing
139	4300730598	HELPER ST E-4	SWSE	36	135	10E	State	ST UT ML 45802	Producing
140	4300730603	HELPER ST A-16	SWSE	11	145	10E	State	ST UT ML 45805	Producing
141	4300730635	CLAWSON SPRING ST A-2	NWNW	36	15\$	8E	State	ST UT ML 46106	Producing
142	4300730636	CLAWSON SPRING ST A-3	NESW	36	15S	8E	State	ST UT ML 46106	Producing
143	4300730637	CLAWSON SPRING ST A-4	NWNE	36	158	8E	State	ST UT ML 46106	Producing
144	4300730642	CLAWSON SPRING ST D-5	NENW	31	15S	9E	State	ML-48226	Producing
145	4300730643	CLAWSON SPRING ST D-6	SWSW	31	15S	9E	State	ML-48226	Producing
146	4300730644	CLAWSON SPRING ST D-7	NWNE	31	158	9E	State	ML-48226	Producing
147	4300730701	CLAWSON SPRING ST D-8	NWSE	31	15\$	9E	State	ML-48226	Producing
148	4300750070	HELPER STATE 12-3	SWNW	3	14S	10E	State	ST UT ML 45805	Producing
149	4300750071	HELPER STATE 32-3	SWNE	3	14S	10E	State	ST UT ML 45805	Producing
150	4300750072	HELPER STATE 32-36	SWNE	36	135	10E	State	ST UT ML 45802	Producing
151	4301530391	UTAH 10-415	NENE	10	165	8E	State	ST UT ML 48189	Temporarily-Abandoned
152	4301530392	CLAWSON SPRING ST E-7	SENE	7	165	9E	State	ST UT ML 48220-A	Producing
153	4301530394	CLAWSON SPRING ST E-8	SWSE	7	165	9E	State	ST UT ML 48220-A	Producing
154	4301530403	CLAWSON SPRING ST E-3	SENE	6	168	9E	State	ST UT ML 48220-A	Producing
155	4301530404	CLAWSON SPRING ST E-1	SENW	6	168	9E	State	ST UT ML 48220-A	Producing
156	4301530405	CLAWSON SPRING ST E-2	NESW	6	168	9E	State	ST UT ML 48220-A	Producing
157	4301530406	CLAWSON SPRING ST E-4	NWSE	6	168	9E	State	ST UT ML 48220-A	Producing
158	4301530410	CLAWSON SPRING ST C-1	SWNW	12	165	8E	State	ST UT UO 48209	Producing
159	4301530427	CLAWSON SPRING ST B-1	NENW	1	168	8E	State	ST UT ML 48216	Producing
160	4301530428	CLAWSON SPRING ST B-2	NWSW	1	165	8E	State	ST UT ML 48216	Producing
161	4301530429	CLAWSON SPRING ST B-3	NWNE	1	168	8E	State	ST UT ML 48216	Producing
162	4301530430	CLAWSON SPRING ST B-4	SESE	1	165	8E	State	ST UT ML 48216	Producing
163	4301530431	CLAWSON SPRING ST B-5	SWSW	12	168	8E	State	ST UT ML 48216	Producing
164	4301530432	CLAWSON SPRING ST B-8	SENE	11	168	8E	State	ST UT ML 48216	Producing
165	4301530433	CLAWSON SPRING ST B-9	NWSE	11	168	8E	State	ST UT ML 48216	Producing
166	4301530434	CLAWSON SPRING ST C-2	SENE	12	165	8E	State	ST UT UO 48209	Producing
167	4301530435	CLAWSON SPRING ST C-4	SWNW	14	165	8E	State	ST UT UO 48209	Producing
168	4301530460	CLAWSON SPRING ST B-7	NWSW	11	168	8E	State	ST UT ML 48216	Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
169	4301530461	CLAWSON SPRING ST C-6	SENE	14	165	8E	State	ST UT UO 48209	Producing
170	4301530463	CLAWSON SPRING ST C-3	C-SE	12	16S	8E	State	ST UT UO 48209	Producing
171	4301530465	CLAWSON SPRING ST B-6	NENW	11	16S	8E	State	ST UT ML 48216	Producing
172	4301530466	CLAWSON SPRING ST H-1	NENW	13	16S	8E	State	ST UT ML 48217-A	Producing
173	4301530467	CLAWSON SPRING ST H-2	NENE	13	16S	8E	State	ST UT ML 48217-A	Producing
174	4301530470	CLAWSON SPRING ST E-5	NENW	7	165	9E	State	ST UT ML 48220-A	Producing
175	4301530471	CLAWSON SPRING ST G-1	NWNW	2	168	8E	State	ST UT ML 46314	Producing
176	4301530472	CLAWSON SPRING ST F-2	NESE	3	16S	8E	State	ST UT ML 48515	Producing
177	4301530473	CLAWSON SPRING ST F-1	SENE	3	16S	8E	State	ST UT ML 48514	Producing
178	4301530474	CLAWSON SPRING ST E-6	SESW	7	168	9E	State	ST UT ML 48220-A	Producing
179	4301530475	CLAWSON SPRING ST G-2	NESW	2	16 S	8E	State	ST UT ML 46314	Producing
180	4301530488	CLAWSON SPRING ST M-1	NWNE	2	168	8E	State	ST UT ML 47561	Producing
181	4301530489	CLAWSON SPRING ST K-1	SESE	2	168	8E	State	ST UT ML 46043	Producing